THEORY OF BIMETALLISM.

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THEORY OF BIMETALLISM

AND

THE EFFECTS OF

THE PARTIAL DEMONETISATION OF SILVER

ON

ENGLAND AND INDIA.

BY

D. BARBOUR,

FINANCIAL SECRETARY TO THE GOVERNMENT OF INDIA.

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CONTENTS.

CHAPTER I.

INTRODUCTORY BEMARKS PAGE The metallic money of the world must be gold and silver . CHAPTER II EXTENT TO WHICH GOLD AND SILVER DISCHARGE RESPECTIVELY THE DUTIES OF MONRY. Gold and silver owe their value mainly to their use as money-Production of gold and silver from 1849 to 1883---At least one half the duty of metallic money is discharged by silver alone CHAPTER III IMPOSSIBILITY OF COMPLETELY DEMONETISING EITHER GOLD OR SILVER. Essential injustice of any change in the extent to which gold and silver discharge respectively the duties of money-Those countries would probably suffer most whose currencies were made to discharge a larger share of the duties of money -- Impossibility of completely demonetising either gold or silver generally admitted in the present day-The course of public opinion on this question 11 CHAPTER IV. OF THE USE OF TWO METALS AS MONEY. Possibility of the use of two metals as money at a fixed ratio-Illustration of the effect of using the two metals separately as money in different countries-A periodical redistribution of the populations using the two metals would have a steadying influence on prices-But any such redistribution is impossible in practice . 17

CHAPTER V.

PRINCIPLES WHICH, IT IS SOMETIMES SAID, SHOULD REGULATE THE USE OF GOLD AND SILVER BY DIFFERENT NATIONS. All rich nations should use gold, and all poor ones silver-All civilised nations should use gold, and all uncivilised nations silver-The present system, under which each nation does from time to time what it likes, is the worst possible way

PAGE

of using two metals as money	26
CHAPTER VI.	
EFFECT ON PRICES OF USING TWO METALS AT A FIXED RATIO.	
The fixed ratio would give the maximum stability of price—Can two metals be made to circulate at a fixed ratio?	29
CHAPTER VII.	
OHJECTIONS COMMONLY RAISED TO THE POSSIBILITY OF TWO METALS CIRCULATING AT A FIXED RATIO.	
Statement of objections—False impression of the nature of bi- metallism—In any case the ratio of exchange between gold and silver depends ultimately upon legislation	32
CHAPTER VIII.	
OBJECTIONS TO THE FIXED RATIO ON THE GROUND THAT SILVER AND GOLD ARE COMMODITIES.	
Gold and silver used as money at a fixed ratio differ in status from all other commodities.—What is true of all other commodities is not, therefore, necessarily true of gold and silver when so used	36
CHAPTER IX.	
OBJECTIONS TO THE FIXED RATIO BASED ON GRESHAM'S LAW.	
The effect of Gresham's law is to increase the coinage of the metal which for the time being is the more cheaply produced—Increased coinage means increased demand, which maintains the fixed ratio—Unless one metal is wholly withdrawn from circulation—And this could never happen in the case of gold and silver—The working of the bimetallic system, in fact, depends on Gresham's law	39

CHAPTER X.	ZOAT
OBJECTIONS TO THE FIXED RATIO BASED ON THE LAWS OF DEMAND AND SUPPLY, AND OF COST OF PRODUCTION.	
Under the bimetallic system the market ratio is not fixed by legislation—Legislation fixes a ratio for certain purposes, and this ratio controls the market—The cost of production is accommodated to the fixed ratio by the extension or limitation of the production of one or other metal, as the case may be.	l
CHAPTER XI.	
UNIVERSAL BIMETALLISM NOT ESSENTIAL, UNDER CERTAIN CONDITIONS, TO GIVE STABILITY OF PRICE.	
A group of countries, or even a single country, can give stability of price by adopting the bimetallic system—But only or condition that it possesses a metallic currency of sufficient magnitude	l .
CHAPTER XII.	
ILLUSTRATION OF THE MANNER IN WHICH A SINGLE BIMETALLIC COUNTRY REGULATES THE MARKET PRICE OF GOLD AND SILVER	
CHAPTER XIII.	
RATIO OF EXCHANGE IN EUROPE BETWEEN GOLD AND SILVER UP TO 1870.	
The currency of the world never settled by common consent—The result has been confusion—The currency frequently debased in England—The legal ratio of exchange between gold and silver coin was continually being varied by England and other nations—The French ratio steadied the market for more than 70 years—This result conclusive as to the possibility of maintaining a fixed ratio.	l l l
CHAPTER XIV.	
CAUSE OF THE DIVERGENCE IN THE RELATIVE VALUE OF GOLI AND SILVER SINCE 1873.	•
State of the currencies of the world in 1870—Demonetisation of silver by Germany—Free coinage of silver stopped in France and the other nations of the Latin union—The United States adopt the gold standard—The Bland Bill—Average price of silver in London for each year since 1852.	3

-		-	 -	
4 Y LE				XV.
	а.			A .

PAGE

EFFECTS OF THE DIVERGENCE IN THE VALUE OF GOLD AND SILVER.

Amount of divergence-Evil effects of divergence-Appreciation of gold-Effect of divergence has probably been to lower gold prices and raise silver prices by the same amount-But this result is liable to be obscured by many other influences. 69

CHAPTER XVI.

THE FALL IN GOLD PRICES.

Mr. Newmarch's opinion on the effect of the gold discoveries in the middle of the century-Mr. Giffen's opinion regarding the insufficiency of the current supplies of gold . . .

75

CHAPTER XVII.

FURTHER EVIDENCE REGARDING THE FALL IN GOLD PRICES AND ITS CAUSE.

Opinion of Mr. Goschen regarding an "Increase in the Purchasing Power of Gold "- Opinion of Mr. Hansard that the fall in prices was due mainly to cheaper production and oversupply-Opinion of M. Paul Leroy-Beaulieu-No reason to doubt that prices have been affected both by increased production and comparative scarcity of gold-Remarkable coincidence between the price of silver and the range of gold prices in England 81

CHAPTER XVIII.

RATIO OF EXCHANGE OF COMMODITIES FOR SILVER IN ENGLAND SINCE 1845, AND LATEST OPINION OF MR. GIFFEN.

The silver prices of commodities in the English market have fallen-The fall in gold prices due partly to increased production and partly to increased work thrown on gold-Mr. Giffen's index numbers for English exports and imports-Of the causes affecting prices, Mr. Giffen attaches the greater weight to the insufficiency of the gold supply-A progressive and gradual fall in prices anticipated-Bimetallism would mitigate present and prospective evils .

91

CHAPTER XIX. PAGE
ANTICIPATIONS OF THE RNGLISH ECONOMISTS REGARDING THE EFFECTS OF THE FALL IN THE VALUE OF SILVER AS COMPARED WITH GOLD.
These anticipations not justified by the result—Results which might have been anticipated from the point of view of the bimetallist
CHAPTER XX.
ABSORPTION OF SILVER BY INDIA.
Value of Indian exports and imports since 1835-6—Yearly import of silver required to maintain equilibrium in India under normal circumstances—Imports of silver in the past largely due to borrowing and special causes—Improbability of very large imports of silver into India in the future unless under the stimulus of special causes 107
CHAPTER XXI.
PRICES OF INDIAN EXPORTS AND IMPORTS SINCE THE FALL IN THE RELATIVE VALUE OF SILVER.
Prices in silver of Indian exports have not risen—Prices of Indian exports as shown by Customs' returns—Prices in silver of Indian imports have not risen—Prices of Indian imports as shown by Customs returns
CHAPTER XXII.
PRIORS IN THE INTERIOR OF INDIA.
No rise in the prices of food grains in the interior of India—A large rise in the wages of skilled labour—Very little rise in the wages of unskilled labour
CHAPTER XXIII.
INCREASE OF INDIAN EXPORTS AND IMPORTS SINCE THE FALL IN THE VALUE OF SILVER RELATIVELY TO GOLD.
Silver prices generally not having risen in India, there has neither been a special stimulus to exports nor a special check on imports—There has been a general fall in the gold prices of both Indian exports and Indian imports—Moderate increase of Indian exports from 1874-5 to 1878-9—Large increase of Indian exports from 1879-80 to 1884-5—Large increase of Indian imports from 1879-80 to 1884-5—Exports not stimulated nor imports checked by a rise in silver prices

CHAPTER XXIV.	PAGE
NO SPECIAL FLOW OF SILVER TO INDIA SINCE 1873.	
No substitution of imports of silver for imports of merchandise after the fall in the relative value of silver—Rate of increase of the foreign trade of different countries—measured by the standards of those countries.	136
CHAPTER XXV.	
EPPECTS OF THE FALL IN THE VALUE OF SILVER AS COM- PARED WITH GOLD ON INDIA.	
An increasing supply of the precious metals necessary to prevent a fall in prices—The fall in gold prices after 1873 aggravated by the partial demonetisation of silver—The partial demonetisation of silver has helped to maintain prices in silver-using countries—Increased prosperity of India since the fall in the relative value of silver shown by the increased consumption of articles which are not necessaries—Large increase since 1873 of the Excise and Stamp revenue as well as of the profits from railways and canals—Rapid growth of Indian revenue, generally, since the fall in the relative value of silver.	
CHAPTER XXVI.	
UNIVERSAL BIMETALLISM.	
Effect of the bimetallic system in checking the rise in prices after the great gold discoveries—Aggregate production of gold and silver has not increased since 1852—Total production of gold and silver not in excess of the wants of the world—India has not lost by the partial demonetisation of silver—Universal bimetallism required—Ratio of exchange between gold and silver should be fixed with reference to the circumstances of the time—Future fall in prices probable—Possibility of the maintenance of the bimetallic system by a group of countries—Improbability of the depreciation of silver in relation to commodities in the future	
APPENDIX A.	
Variations in the prices of exports at Calcutta	160
APPENDIX B.	
Pay of postmen in India—Pay of postal runners in India .	162
APPENDIX C.	
Course of foreign trade in different countries	. 169

PREFACE.

I CANNOT hope at the present day to present the theory of bimetallism in a form which will attract greater attention than it has hitherto received; but it has appeared to me to be desirable that the whole theory should be re-stated for the convenience of those who have not followed the course of discussion of the question in recent years, and that certain popular misapprehensions regarding it should be removed. Moreover, the time has now arrived when the effects of the abandonment of bimetallism by the Latin Union on the welfare of India and of England may profitably be examined. For these reasons I have decided, rightly or wrongly, to place the present work before the public. The views which I express are, of course, my personal views, and must not be supposed to represent the opinions of the Government of India.

The total demonetisation of either gold or silver is an impossibility, and the question of the best method of using two metals as money is, therefore, one of the very greatest importance. I have tried to show that the best results for the whole world will be obtained by using them as money at a fixed ratio to be determined by common consent, and I have taken the opportunity of explaining that the bimetallists do not, as is sometimes supposed, wish to fix the market price of a commodity by law; the bimetallists merely advocate a system of currency which has the advantage of rendering the market ratio of gold to silver very nearly constant.

When France maintained the bimetallic system, there was no law in the French Code which prevented the holder of either gold or silver from selling it in the open market for what it would fetch.

An examination of the economic facts of the last twelve years leads to the conclusion that there would in any case have been a fall in prices after 1873, due to increased population, increased wealth, increased trade, and increased production of commodities; but that this fall in prices has been aggravated in countries using the gold standard, and checked, or altogether obviated, in countries using the silver standard by the partial demonetisation of silver.

In so far as this has been the case, the silver countries have unquestionably gained, while the gold countries have lost.

On the other hand, the silver countries that had debts in gold have lost, and so have all persons whose incomes were in silver, but who had incurred obligations payable in gold.

Both silver and gold countries have lost by the additional element of uncertainty introduced into all operations of commerce between such countries, as well as by the check imposed on the flow of capital from gold to silver countries.

It cannot be hoped that the adoption of universal bimetallism would bring back gold prices to their old level, or even prevent the possibility of a fall in future years; but it would have a material effect in this direction, and would thereby mitigate the evils from which all countries with a gold standard are now suffering.

If bimetallism be not accepted by the nations of the world, every fall in the gold price of silver will be followed by a corresponding decline in the gold prices of commodities, by increased disinclination of capitalists in London to invest money in India, by a reduction of profits, and a general increase of the burden of obligations already contracted in England; and no man can foresee the time when these evils will cease. A great crash may be expected if the monometallists of France and America show that they possess the courage of their convictions by altogether demonetising silver, and selling the depreciated metal in the open market. It would take many years to obliterate the effects of the calamities which would then be experienced; and when equilibrium had been at last reached, it would still be in the power of the monometallists to reproduce similar disasters by persuading other

nations to demonetise silver, or at any rate to attempt to do so.

To ensure the final overthrow of the monometallic theory, it is only necessary that an attempt should be made to carry it out without reservation; and it is to be feared that no sufficient remedy for present evils can be expected until some such attempt is made, and until monometallism is felt to be intolerable by the countries with which the final decision between the two systems of currency rests.

Some years ago a writer of eminence laid great stress on the prejudice of "our straightforward English minds" in favour of monometallism, and declared that "the unlikely look" of bimetallism would "have as much or more effect on most English minds than any argument."

He was probably right as to the tendency of many minds to judge of a thing by its "unlikely look" rather than by argument; but there are certain facts which even the most "straightforward English minds" will find it difficult to reject on account of their "unlikely look."

Between 1873 and 1884 the value of the foreign trade of England, measured by her standard of value, decreased by 6 per cent.; in the same period the value of the foreign trade of India, measured by the Indian silver standard, increased by 57½ per cent., and during this

time there was no depreciation of silver in India as compared with commodities.

The following table shows the price of wheat in periods of seven years, from 1861 to 1881, in England and in the three chief wheat-producing provinces of India, and also the average price of wheat in 1882-83-84 in both countries:—

PRICE OF WHEAT.

Period.		England, shillings per quarter.	India, rupees per 1,000lbs.
186167	•••	50°25	20·7
186874		55°25	24·9
18751881		46°83	23·6
188284		40°75	22·7

The average price of wheat in England in 1882-83-84 was less than the average price of wheat during the preceding 21 years by 19.7 per cent. The average price of wheat in India fell only 1.7 per cent. If the figures of 1885 were compared with those of the period 1861 to 1881, the contrast would be still more striking, as wheat in England has fallen far below the average of 1882-84, while its price in India remains almost the same. The English farmer might accept the fall with the less regret if he thought the English people had gained by having cheap bread; but the gain is unreal, in so far as all the products of English industry have experienced a similar fall-in other words, in so far as the fall in price is due to the appreciation of gold.

Nor is there any reason to suppose that the fall in gold prices is only temporary, or that we have yet reached the lowest limit. The diagrams at the end of Chapter XVII. show the course of prices in England according to the index numbers of the *Economist* from 1845-50 to 1873, and also from 1873 to 1885, as well as the prices of silver during the same periods.

From 1845-50 to 1873, while the world still retained the advantages of bimetallism, the range of gold prices in England was independent of the price of silver. Since 1873 the course of prices has been steadily downwards, and both the general fall in prices and the temporary fluctuations in prices have been in almost exact accordance with the rate of exchange between gold and silver.

The only divergence occurs between 1883 and 1884, and is due to the India Office having temporarily forced down the price of silver in the beginning of 1883, by placing bills on the market in unprecedented amounts.

In the language of Mill, gold prices and the rate of exchange between silver and gold are connected by a law of causation, and we cannot doubt that if silver continues to fall relatively to gold, the gold prices of commodities will also continue to fall.

THE

THEORY OF BIMETALLISM

CHAPTER I.

INTRODUCTORY REMARKS.

THE inconvenience of direct barter led in very Early use of early times to the use of money, and the first substance used to discharge, in some degree, the functions of money was, no doubt, one that was in general request, not perishable, and divisible without destruction or impairment of value.

A man who had surplus wheat, or any other perishable commodity, found it convenient to exchange it for iron or copper although he had no immediate use for these metals, because the demand for iron or copper was so general and so steady that at a future period he could safely calculate on being able to get the same weight of wheat, or an equal value of other commodities, for the iron or copper which he accepted in exchange for wheat.

The primary conditions on which the use of Primary condiany substance as money depends are that the the use of any community should be willing to receive it freely money depends, in exchange for commodities, and that its value

tions on which substance

in exchange for commodities should not be liable to serious depreciation.

Superiority of silver and gold as money.

Iron, copper, salt, and many other commodities, have been used as money, and in some places are still so used; but the superiority of silver and gold over other substances for use as money has long been established and is beyond question.

The causes which have led to gold and silver being generally accepted as the material of the metallic currency of civilised nations are well known and need not be repeated.

Not essential that money should possess intrinsic value. Although the money of the civilised world by a natural process came to be coined gold and silver, it will be obvious from what has been said regarding the conditions on which the use of money depends, that it is not essential that the currency should be composed of a substance possessing intrinsic value.

A farmer will be willing to sell his horse for mere tokens if he knows that the tokens will be readily accepted by those from whom he may afterwards wish to purchase commodities, and if he knows that the tokens will be so limited in quantity as not to lose their value in exchange for commodities.

Inconvertible paper currencies.

Consequently we find that inconvertible paper currencies have frequently come into existence. The Government of a country has found itself in a position to compel the people of that country to accept paper tokens, and has forced them into circulation.

No such currency is, however, of any value for the final settlement of balances between two nations. Inconvertible paper may be taken in a foreign country, but only on the understanding that it can be exchanged in the country of origin for something which possesses intrinsic value.

For the reason just stated an inconvertible Inferiority of paper currency is inferior to a metallic currency; but the chief and fatal objection to it is the impossibility of feeling certain that the issue of inconvertible paper money will be so limited as to prevent depreciation.

tible paper cur-

The farmer can sell his horse for sovereigns in full hope that three months afterwards he will be able to buy another horse, equally good, for the same sum. If, however, he parts with his horse in exchange for tokens, and if the Government afterwards largely increases the issue of tokens,—and Governments are at times very strongly tempted to do so,-he may find that it will take twice as many tokens to purchase another horse, or, in other words, that he has sold his horse in exchange for what turns out to be only half the price he must pay for an equally good horse.

Inconvertible paper money is obviously the All nations decheapest form of currency, but in spite of its economy all nations are anxious to possess a currency which possesses intrinsic value. find it much safer to trust to the natural laws which regulate the production of the precious

sire to possess a currency which has intrinsic value.

metals than to rely upon the wisdom and moderation of the hest (fovernment

Gold and silver will continue tallic money world.

Although the use of money is economised by to be the me- credit, and although nations have from time to of the civilised time had recourse to an inconvertible paper currency, the legal tender money of the civilised world is essentially gold and silver, and, so far as can be foreseen, will continue to be gold and gilver

> Some nations have a gold currency, others a silver currency, others again a currency which is partly silver and partly gold; it is obviously of great importance that the material of the currency should be employed in the manner which will give the best results for the whole world.

CHAPTER II.

EXTENT TO WHICH GOLD AND SILVER DISCHARGE. RESPECTIVELY. THE DUTIES OF MONEY.

GOLD and silver owe almost the whole of their Gold and silver value to the fact that they can be converted into, and used as, money.

owe their value mainly to their use as money.

If gold and silver were absolutely excluded from the currency of the world, their value would be greatly reduced, if it did not almost entirely cease to exist; and if either gold or silver were largely excluded from the currency of the world the value of the metal so excluded would experience a very great fall.

For convenience of reference I give here Annual estimates of the total annual production of gold and silver in and silver from 1849 to 1883.

duction of gold the world from 1849 to 1883.

The production of gold from 1849 to 1875 is given on the authority of Tooke and Newmarch and the Economist; the production of silver from 1852 to 1875 on the authority of Sir Hector Hay. The figures for both metals from 1876 to 1883 are those given by the Secretary of the Treasury of the United States.

The figures showing the production of silver in 1849, 1850, and 1851, are taken from an estimate by the American Bureau of Statistics.

The value of the production of silver in the later years is its value according to the former ratio between gold and silver, and without allowing for the relative depreciation of silver in recent years.

Year	Gold	Silver.	Total.
	£	£	£
1849		9,000,000	14,420,000
1850		8,900,000	17,790,000
	13,520,000	8,700,000	22,220,000
1852 .		8,120,000	35,150,000
1853		8,120,000	36,200,000
1854		8,120,000	36,400,000
1855 .	30,240,000	8,120,000	38,360,000
1856	32,250,000	8,130,000	40,380,000
1857		8,130,000	35,775,000
1858	. 24,411,000	8,130,000	32,541,000
1859	21,458,000	8,150,000	29,608,000
1860	. 18,683,000	8,160,000	26,843,000
1861	. 22,454,000	8,540,000	30,994,000
1862 .	. 22,118,000	9,040,000	31,158,000
1863	20,115,000	9,840,000	29,955,000
1864 .	18,996,000	10,340,000	29,336,000
1865	. 20,254,000	10,390,000	30,644,000
1866	21,720,000	10,145,000	31,865,000
1867 .	20,700,000	10,845,000	31,545,000
1868 .	19,514,000	10,045,000	29,559,000
1869 .	21.283,000	9,500,000	30,783,000
1870	19,050,000	10,315,000	29,365,000
1871 .	21,793,000	12,210,000	34,003,000
1872 .	17,569,000	13,050,000	30,619,000
1873 .	21,946,000	14,050,000	35,996,000
1874	19,880,000	14,300,000	34,180,000
1875	. 20,353,000	16,100,000	36,453,000
1876 .	23,400,000	20,100,000	43,500,000
1877	23,400,000	16,600,000	40,000,000
1878	. 24,400,000	19,500,000	43,900,000
1879 .	. 22,300,000	19,800,000	42,100,000
1880	01 000 000	19,900,000	41,800,000
1881	21,200,000	21,000,000	42,200,000
1882 .	20,300,000	22,600,000	42,900,000
1883	19,300,000	23,400,000	42,700,000

Estimates of production absolutely accurate.

The reader will recollect that no estimate of cannot be made the world's production of gold or silver can pretend to more than a very moderate degree of accuracy.

Thus it will be seen that the table on the preceding page indicates a large increase in the production of both gold and silver for 1876. This apparent increase is no doubt due chiefly to the fact that the figures for years subsequent to 1875 are taken from a different authority.

It might at first sight appear that the extent Extent to to which gold and silver discharge, respectively, the duties of money, could be determined by ascertaining the ratio which the total amount of silver circulating as coin bears to the total amount of gold circulating as coin, but it would probably give a more accurate result if we could compare the total quantities of gold and silver either used as coin, or hoarded in view to being turned into coin in case of need.

which gold and

silver discharge respectively

the duty of money.

In consequence of their use as money, gold and silver are very largely hoarded, especially in reserve disthe East; and as it is assumed that gold and silver can always be converted into coin, or will fetch their full value in exchange for coin, the person who hoards them is often content to hoard them in the form of uncoined bullion. Though not hoarded in the form of coin, they are hoarded as representatives of value; and if other metals were substituted as money for gold and silver, the new metals would have to supply the amount required for hoarding. It is, therefore, fair to say that not only the silver or gold which is circulating as coin, but also the silver or gold which is hoarded with a view to being

Silver and gold hoarded as a charge, in one sense, the duty of money.

made into coin in case of need, is performing the duty of money.

Comparison of the relative quantities of gold and silver in the hands of man indicates with sufficient accuracy the exrespectively discharge the duties of money.

It is impossible to say what amount of gold and silver is hoarded as a reserve against a time of distress, and what amount of bullion is used simply to produce articles of luxury, and without any intention of its being thrown into the curtent to which rency in a time of pressure; as we are unable to determine the relative amounts of gold and silver which are used as coin and for the purpose of hoarding we must be content to compare the relative amounts of the two metals which are believed to be in the hands of man. The conclusion at which we shall arrive in this way will be sufficiently accurate for the purpose we have in view

Increased production of gold the discovery of America.

The amount of gold and silver in the hands and silver after of man in 1492 was only a fraction of the amount in existence at the present day; but on the discovery of America very valuable mines of gold and silver came to be worked, and it is estimated that from 1493 to 1848 as much as 1,200 millions sterling of silver was produced, and rather more than half that amount of gold.

Great increase in the producfrom 1849.

After 1848 the relative rate of production tion of gold altered rapidly, and at one period (1853 to 1857) the value of the gold produced was more than three times the value of the silver produced.

Falling off in in the production of gold after 1857.

From 1857, however, the amount of the gold produced fell off, and that of the silver increased, so that at the present time the production of silver is somewhat in excess of that of gold, though if we allow for the depreciation of silver in value relatively to gold, the value of the silver and gold produced every year appears to be very nearly equal.

The total amount of gold and silver in existence at the present day cannot, of course, be accurately known; but, according to Tooke and Tooke and Newmarch, in 1850 there was in existence $15\frac{1}{2}$ millions of pounds (troy) of gold, and 3741 millions of pounds (troy) of silver. Gold being at that date worth $15\frac{1}{2}$ times its weight of silver, it follows that the value of the gold was to the value of the silver, nearly, as 5 to 8, or, in other words, silver discharged eight-thirteenths, and gold five-thirteenths, of the duty of metallic money.

Newmarch's estimate quantity of gold and silver in the hands of man in 1850.

Ernest Seyd calculated that in 1871 there Ernest Seyd's existed 750 millions sterling of gold in the form of coin and bars held by banks and in the market, and 649 millions sterling of silver held tence in 1871. in the same form. These figures would show that in that year gold discharged rather more than one-half of the whole duty of money, but it should be recollected that they do not include sums hoarded, and I have little doubt that there is more silver hoarded than gold.

Mr. Dana Horton has estimated that in 1876 Dana Horton's the total stock of gold in the hands of man was stock of gold £1,100 millions, and of silver £1,500 millions. 1876. This calculation would show that in 1876 silver

estimate of the quantity of gold and silver coin in exis-

estimate of the and silver in did rather less than eight-thirteenths of the duty of money, and that gold did rather more five thirteenths

The total production of gold and silver from 1877 to 1883 has been, according to the table already given, £152,800,000 and £142,800,000 respectively, the gold showing a tendency to decrease, and the silver to increase.

Estimate of the stock of gold and silver in 1883.

If we take Mr. Dana Horton's figures for 1876 as our starting point, and place the total loss of the precious metals from all causes at 4 millions of gold and 6 millions of silver yearly, we find that the quantities of gold and silver in the hands of man at the end of 1883 were, in round numbers, 1,224 millions and 1,600 millions sterling, respectively.

The Director of the United States Mints has estimated the gold coinage of the civilised world at 3,943 millions of dollars, and the silver coinage at 2,755 millions of dollars; the Director's figures do not include China, where the currency is silver. Bearing this fact in mind, and recollecting also that more silver than gold is hoarded. At least one- we cannot doubt that at least one-half of the of metallic whole duty of gold and silver as money is discharged by silver alone, even after making an allowance for the present relative depression of silver.

half the duty money la discharged by silver alone.

CHAPTER III.

IMPOSSIBILITY OF ENTIRELY DEMONETISING EITHER GOLD OR SILVER.

THE conclusion at which we have arrived in Effect of en-Chapter II. regarding the relative importance of tirely demonegold and silver as the medium of exchange, and would be diswhich is substantially not open to question, enables us to form some conception of what would be the effect of entirely demonetising silver and substituting gold.

This change would not, of course, affect the total wealth of the world. The land would be as productive, and human industry as efficient as before, but silver would practically cease to have any value, while gold would have doubled in value. In other words, property worth from 1,200 to 1,500 millions sterling would have been transferred from the pockets of one class to those of another. Nor would this change, gigantic as it is, represent the whole of the facts; all debtors would have their debts doubled, while their creditors would gain in a corresponding degree.

To make any such change in the currency of No practicable the world equitable, it would be necessary to would render take from every human being one-half of the equitable. gold he possessed, and to transfer it in appro-

adjustment such a change priate quantities to the holders of silver, to reduce all gold coins to half their former weight, and to substitute for silver coins gold ones containing half as much gold as equivalent gold coins would have contained before the demonetisation of silver. All obligations contracted before the change would in the same way require to be adjusted with reference to the new and increased value of gold.

The operation is one that could not be carried out and that will never be attempted, but what has been stated will enable the reader to form some conception of the disasters which must ensue if gold be very much more largely employed as coin than silver. It would, roughly speaking, be fair and in accordance with the present position of gold and silver that half the nations of the world should use silver and half of them gold as metallic money. If two-thirds of the nations took to gold and left one-third with silver, the evils would be enormous: if three-fourths chose gold, the evils would be still greater; and if the whole world chose gold to the exclusion of silver, the evils would be such as I have already indicated.

I have stated extreme cases in order to illustrate the evils of change, but there are many intermediate courses involving only minor degrees of loss. For instance, six-tenths of the nations might adopt gold, leaving four-tenths to silver; and the nations who adopted gold as their

standard might, to a greater or less extent, use silver for a subsidiary coinage.

It cannot, however, be too strongly stated Essential inthat any material change in the amount of duty as money discharged by gold and silver involves an unfair transfer of property from one class to another. If gold is called on to discharge duties heavier duties than before, it will rise in value, and silver, having less duties to discharge, will fall. All holders of gold will gain, all holders of silver will lose. All gold debtors will lose, all gold creditors gain; all silver debtors gain, all silver creditors lose.

justice of any change in the extent to which gold and silver discharge respectively the money.

It might be thought that the countries with Gold countries a gold coinage would gain and those with a silver coinage lose when gold was called on to discharge a heavier share of the duties of money; but it is very doubtful whether the balance of countries. disadvantage would not be on the side of the countries using gold. The gain of the gold countries would lie in the fact that, internationally, their coin would be worth more than before, and the silver countries would lose from the opposite cause. On the other hand, the gold countries would suffer from a contracting currency and the silver countries from an expanding currency, and the evils which attend a contraction of the currency are much greater than those which follow its expansion.

Great authorities hold that the whole world will probably suffer in future from a contracting

would probably suffer more from a partial demonetisation of silver than would

currency. If this be the case, the partial demonetisation of silver would be a distinct gain to countries with a silver standard, and a distinct loss to countries with a gold standard.

Complete demonetisation or silver now generally admitted to be impossible.

The complete demonetisation of either gold of either gold or silver is absolutely impossible, and this conclusion is now almost universally accepted, although twenty or thirty years ago, when the production of gold was so much in excess of that of silver, there were eminent authorities who held that silver might be demonetised in favour of gold, and others who held that gold must be demonetised to prevent the indefinite depreciation of the currency.

Remarkable change of opinion shown by the three Monetary Conferences held at Paris.

The course of public opinion on this question is very clearly indicated by the proceedings of the three Monetary Conferences held at Paris in 1867, 1878, and 1881.

TheConference of 1867 recommended an universal gold standard.

The first Conference had for its object the adoption of an uniform and universal coinage. The importance of an universal monetary unit was exaggerated in its deliberations, and it consequently advocated a gold standard, supplemented temporarily with silver.

TheConference of 1878 came to an exactly opposite conclusion.

The Conference of 1878 came to exactly the opposite conclusion, and declared that it was "necessary to maintain in the world the monetary functions of silver as well as those of gold," while leaving to each State to choose either gold or silver, or both, as the material for its currency.

The Commissioners who represented the The Commis-British Government at the Monetary Conference of 1878 were permitted to attend only on the express understanding that the question to be ence of 1878 submitted to the Conference was not an open lowed to attend one so far as the United Kingdom was concerned, and that England would in no way depart from the policy which she had pursued for the previous sixty years; or, in other words, that the United she was determined to maintain the gold monometallic standard.

sioners who represented Great Britain at the Conferwere only alon the understanding that the monetary question was not an open one as regards Kingdom.

The English Commissioners in their Report presented to Parliament, while declaring that they were of opinion that the impossibilities of establishing a bimetallic system by common agreement for all the world were so obvious that it was not worth while urging the matter, nevertheless gave it as their opinion that "a single gold standard throughout the world would be a false utopia, and that further steps in that direction might tend to produce incalculable disasters to the commerce of the world." They considered Yet the British that the aim of the various States should be "to keep silver in the position which it occupies as the partner or natural ally of gold in all parts of further the world where it might be possible to do so," silver. and "that a campaign undertaken against silver would be exceedingly dangerous, even for the countries who have given a position as legal, tender only to gold."

Commissioners expressed strong opinion against any monetisation of

"Nothing surely would create greater dis-

orders in the economic situation, and produce a more disastrous crisis, than a general effort on the part of all States to rid themselves of their silver at the same time."

Considering the position in which the Commissioners were placed, no stronger testimony could be given to the impossibility of demonetising silver.

Impossibility of completely silver acknow-Conference of 1881.

In the Monetary Conference of 1881 the demonetising impossibility of demonetising silver was practiledged at the cally admitted to be beyond question.

CHAPTER IV.

OF THE USE OF TWO METALS AS MONEY.

It has been shown in the preceding chapter, in what wav both by argument and on the basis of authority, be used as that gold and silver must continue to be used as money unless we are prepared to accept a social tage? cataclysm. It remains to consider in what way the functions of money can best be discharged by the use of two metals.

can two metals money to the best advan

There are many ways in which two metals There are varimight be used as money. For instance, one set using two of countries might use one metal, and another set metals as moof countries might use the other metal. Or coin might be made to consist of the two metals mixed in a definite proportion. Or the two metals might, as some allege, circulate side by side at a ratio fixed by law, and the ratio might either be fixed once for all, or altered from time There are doubtless other ways in to time. which two metals might be used as money; but in the present day those persons who occupy themselves with the question of the use of gold and silver as money fall naturally into two parties. One party contends that it is possible of using the to use both metals as money, a fixed ratio being, differently, at for certain purposes, established by law between

But the practical question of the present day refers to the possibility two metals, ina fixed ratio.

them when coined into money; and that it is expedient, if not absolutely necessary so to use them; the other party contends that a fixed ratio between the two metals is an impossibility, both in theory and in practice, and that each country can and should use one only of the metals as its standard, the ratio of exchange between the two metals being left to adjust itself by the operation of natural laws

For all practical purposes it will be sufficient to deal only with the question in dispute between these two parties.*

The problems connected with questions relating to the currency are so complex in their nature that it will be best to begin the attack on them in the simplest form to which they can be reduced. This course has the sanction of Mill, who observes that "on a subject so full of complexity as that of currency and prices, it is necessary to lay the foundation of our theory in a thorough understanding of the most simple cases, which we shall always find lying as a groundwork or substratum under those which arise in practice."

^{*} I have not thought it necessary to consider a proposal which has recently been discussed, namely, to fix a ratio between gold and silver as a temporary measure, and to vary it, by authority, from time to time according to the state of the market. This system would not remove the evils from which we now suffer, would be found intolerable in practice, and is unnecessary, since if the ratio were once fixed for the world it would never require to be altered

Let us, then, suppose that there are but two mustration of nations in the world, living side by side, and the effect of using the metals with a population of one million souls in each. Let us further suppose that the population of different couneach increases at the rate of 10,000 per annum, and that the aggregate wealth increases exactly in the ratio of the population. Let us also suppose that one nation uses a metal which we shall call A, and the other a metal which we shall call B, as money, and that the quantity of metal A and metal B produced is just sufficient to increase the currencies of the two countries in exact proportion to their growth in population and in wealth, and that the two nations are, so far as regards their economic conditions, in a perfectly stationary state, everything increasing in exact proportion to the increase of population.

the effect of separately as money in two tries

For the sake of simplifying the problem, we will further suppose that none of the metal used as money is lost, wasted, or employed in the arts.

We will also suppose that one of these nations has got a currency of 10 coins of metal A per head, or 10 million coins in all. As the population increases at the rate of 10,000 per annum, and as everything in the country increases in exactly the same ratio, it is clear that an addition to the currency of 100,000 $(10,000 \times 10)$ coins should be made yearly if prices are to remain the same.

In other words, the production of metal A

should be just sufficient to supply 100,000 coins yearly.

We will suppose the second nation to hold as currency ten times as much of metal B as the first nation possesses of A, and that metal B is only one-tenth as valuable as metal A, weight for weight. The second nation will consequently have a currency composed of 100 coins per head, or of 100 millions of coins in all; and as the increase of population is 10,000 yearly it will be necessary that the metal B should be produced at such a rate as to be able to supply 1,000,000 coins annually.

If the two nations continue to increase in population and wealth as we have supposed, and if the metals from which their coin is made are produced yearly at the rate of 100,000 and 1,000,000 pieces respectively, it is clear that we shall have a state of things in which the purchasing power of coins of metals A and B will remain perfectly stationary.

Prices rise or fall in each cording to the tion of the metal which uses as money.

Let us now suppose that metal A is suddenly country ac- found in larger quantities, and that the producrate of production rises to 200,000 coins yearly.

If matters had continued in their old course. that country there would have been 10,100,000 coins at the end of the first year, and prices would have been exactly the same as before. But there are actually 10,200,000 coins in existence; and as there is no greater demand for coins than before, it follows that the coins will fall in value. This

is owing to the invariable law which regulates demand and supply.

We may assume that the metal A continues to be produced in larger and larger quantities until, when the population reaches 2,000,000, the currency, instead of being composed of 20,000,000 coins, is composed of 30,000,000 coins, and three coins are actually doing the work that was formerly done by two coins. In other words, a coin will only purchase two-thirds of what it would formerly have purchased, and the coins composing the currency have become depreciated to the extent of one-third of their former value

In the other nation, on the contrary, the increase of currency has been exactly proportional to the work it had to do, and prices have remained the same. The one country has experienced a rise in prices due to over-supply of the material of the currency; the other has had the benefit of stationary prices.

Before the increase in rate of production of And the rate metal A began, one lb. of that metal purchased between the the same amount of wheat that could be obtained varies in accorin exchange for 10 lbs. of metal B, and one lb. of metal A was exchangeable for 10 lbs. of prices. metal R

two metals dance with the variation

Under the new conditions, 10 lbs. of metal B will still purchase as much wheat as before, while one lb. of metal A will only purchase two-thirds of that amount: it follows that one lb. of metal A will now exchange for only $6\frac{2}{3}$ lbs. of metal B, instead of for 10 lbs.

The result therefore has been that there has been a rise of prices in the first nation, and simultaneously an alteration in the rates at which the two metals exchange.

If we assume that the production of metal B has been decreasing while that of metal A has been increasing, we get a double effect. Prices will have risen in the country that uses metal A, and fallen in the country that uses metal B. Both countries will have suffered from variation in prices, and there will have been also a variation in the ratio in which the two metals exchange against each other.

It will readily be understood that prices might rise by one-third in the first country, while they fell by one-third in the second country. The total amount of the two currencies taken together would, in this case, be exactly what it ought to be in order that prices might remain stationary; but one country would have one-third too much, and the other one-third too little, and consequently one country would suffer from a rise and the other from a fall in prices.

Is it possible to arrange that the excess production of one metal shall balance the short production of the other?

At this stage the question naturally arises, whether it would be possible by any means to so arrange matters that the excess in one country should balance the deficit in the other, and that both countries should have the benefit of stated prices

Assuming, as before, that the population in each country has increased from 1,000,000 to 2,000,000, and that there has arisen an excess of one-third of the total currency in one country and a deficiency to the extent of one-third in the other, we find that the country which ought to have had 20 millions of A coins has got 26% millions: the other country required 200 millions of B coins, but has only got 133 $\frac{1}{2}$ millions.

An obvious remedy for the variation in prices in the two countries is that one-third of the population of the second country should give up the use of the metal B and use metal A.

If this be done, we shall have 24 millions of people with $26\frac{2}{3}$ millions of A coins, or 10 coins per head, and 14 millions of people with 1334 millions of B coins, or 100 coins per head. As these are the amounts per head required by our hypothesis to maintain equilibrium, prices will neither rise nor fall in the two countries, and the coins will interchange at the rate of 1 to 10, as before.

We thus see that if the production of one This can be metal increases just as much as that of the other by altering the falls, it is possible by a redistribution of the population using the two metals to bring about using the two equilibrium in prices.

If the production of one metal fell off and And in any that of the other remained stationary, it would mum variation not be possible to bring about equilibrium by avoided by reany redistribution; but it would be possible by distribution of population.

done in theory. distribution of the population metals.

case the maxiin price can be redistributing the population to spread the effect of the excess production over both countries, and in this way to diminish the maximum amount of the rise in prices. If no redistribution were made, prices would rise in one country and remain stationary in the other. By redistribution we can reduce the variation in price to half what it otherwise would have been, but at the same time we bring double the population under the influence of the rise.

It is obviously better that the variation in prices should be reduced in degree by being spread over the whole world than that the total rise due to excess production should fall on a few countries.

The most unfavourable case would arise when the rate of production of both metals increased equally or decreased equally at the same time. In such case no distribution that could be made would have any effect. But if the rate of production of one metal increased while that of the other decreased, or if they both rose or both fell together, but one more rapidly than the other, it would be possible by a redistribution of the population using the two metals to reduce the maximum variation in price due to the rise or fall in the rate of production of the metals.

In other words, by redistribution of the population a steadying effect on prices could be produced in every case but one; and that one is not likely to occur in practice.

Although it is possible to show that, in In practice. theory, a steadying influence could be exercised on prices by redistributing the population using the two metals, it must be admitted that any such redistribution. process is out of the question in practice. Who is to say that the production of one metal has so increased in reference to the other metal as to make a redistribution of population desirable? Who is to investigate the thousand elements that affect price, and to say there is a general rise or a general fall, and that it is due to increased or diminished production of one of the precious metals rather than to some other cause? And, above all, what probability is there that any nation would change its currency at the bidding of some authority to which it owed no allegiance, and whose dicta must be of very doubtful correctness?

however, it would be found impossible to make any such

It is wholly impossible in practice to readjust the currencies of different countries from time to time, so as to assign to each of two metals the exact amount of duty as money which involves the minimum alteration in prices.

CHAPTER V.

BRIEF EXAMINATION OF PRINCIPLES WHICH SOME AUTHORITIES HOLD SHOULD REGULATE THE USE OF GOLD AND SILVER BY DIFFERENT NATIONS.

Absurdity of certain principles which have been put forward to regulate the distribution of gold and silver money among the nations of the world.

Two principles which, it has sometimes been said, should regulate the distribution of the countries of the world between gold and silver may now conveniently be noticed. The two principles that have been put forward are—

- (1) All rich nations should use gold, and all poor ones silver; or
- (2) All civilised nations should use gold, and all uncivilised nations silver.

These principles are open to so many objections that it is difficult to deal with them seriously. What is to be done if a rich nation becomes poor, or if an uncivilised nation becomes civilised?

What will happen if all nations become equally civilised or equally rich?

Who is to decide with binding authority what nations are rich, and what nations are civilised? Will not each nation decide for itself whether it is poor or rich; whether it is civilised or uncivilised?

Why should a poor nation use silver? If A silver stana nation requires £10,000,000 as currency, it rency are not will have to pay the same for it, whether it gold standard chooses gold or silver. There is no economy in using a silver currency rather than a gold one. In either case the currency must be of a certain value, and therefore a silver currency will cost just as much as a gold one.

dard and curcheaper than a and currency.

Small debts can, no doubt, be most conveniently discharged with silver coins, because gold coins of very small value would be so minute as to be inconvenient to handle, and, presumably, the proportion of small debts is greater in a poor country than in a rich one; but rich countries as well as poor ones find it necessary to issue a subsidiary coinage in silver, copper, or bronze, for the payment of small debts, and a poor country will simply require a larger proportion of these subsidiary coins.

What likelihood is there that a division based on the comparative wealth or degree of civilisation of the nations of the world would permanently coincide with a division based on the relative capacity of gold and silver to meet the demand for an increase of the currency? None whatever

Other rules also have been prescribed for regulating the use of silver. One is that the nation that has got a gold standard should keep to the gold standard, and the nation that has got a silver standard should keep to its silver standard. Another is that each nation should do exactly as it likes. There is something to be said for the former of these principles; indeed, the only objection to it is that it would confine the effect of over or under production of any metal to half the nations of the world instead of distributing it over the whole world.

The latter principle is the one that now regulates the use of gold and silver by the world. I do not know anything to be said in its favour.

CHAPTER VI.

EFFECT ON PRICES OF USING TWO METALS AS CURRENCY AT A FIXED RATIO.

It has already been shown that if two metals Can the staare in use in different countries as money, the that would greatest possible stability of price can, in theory, be obtained by an alteration from time to time of the proportion of the total population using each metal; and I have admitted that in practice any such modification is impossible.

Is it possible to devise any practicable means of using the two metals as money which will give the same stability of price that would be obtainable if we could only distribute the two metals at our wish among the populations of the world?

About this question rages the dispute of the monometallists and the bimetallists.

The contention of the bimetallists is that it Contention of is possible to declare a fixed ratio of exchange, lists. for certain purposes, between the two metals when used as money, debts being paid at the option of the debtor in coins of either metal, and that the existence of this fixed ratio for the purposes of the currency will control and regulate the market price of the two metals so as to

bility of price be given by periodical redistribution of the nopulation using two metals separately as money be obtained in anv other way?

the bimetalprevent it from varying in any material degree from the fixed legal ratio of the currency.

In order to test the effect on prices of declaring a fixed ratio between the two metals when coined, let us again make the assumptions that were made on page 17. We shall then the two metals have, at starting, a population of one million at the fixed with a currency of 10,000,000 coins of A metal, of bimetallism and another population of one million with a give the maxi- currency of the same value, but consisting of 100,000,000 coins of B metal.

Assuming that ratio, the effect would be to mum amount of stability to prices.

Assuming that both countries remain monometallic, we shall have in the next stage a population of two millions with a currency of $26\frac{2}{3}$ millions of A coins, being an excess of $6\frac{2}{3}$ millions of coins, and we shall have another population of two millions with only $133\frac{1}{3}$ millions of B coins, showing a deficit of $66\frac{2}{3}$ millions of B coins.

At the old ratio of 10 to 1, the $6\frac{2}{3}$ millions of A coins which are in excess are exactly of the same value as the $66\frac{2}{3}$ millions of B coins.

If, then, before the rate of production of the two metals began to vary it had been declared that the A and B coins were full legal tender at the ratio of 1 to 10 throughout both countries, we should, according to the bimetallists, have had $26\frac{2}{3}$ millions of A coins and $133\frac{1}{3}$ millions of B coins forming the currency for four millions of people. The $133\frac{1}{3}$ millions of B coins being worth $13\frac{1}{3}$ millions of A coins, it follows that the

value of the total currency is 40 millions of A coins, or, in other words, we have for four millions of people a currency which is of the value of 10 coins of A metal per head. This is the exact amount required by our hypothesis to ensure stability of price, and we consequently see that the alternative and optional use of the two metals as money at a fixed ratio secures stability of price, provided that the two metals do actually circulate side by side at that ratio.

CHAPTER VII.

COMMONLY RAISED TO THE POSSI-OBJECTIONS DILITY OF TWO METALS CIRCULATING AT A FIXED RATIO.

Can two metals be made to circulate at a fixed ratio?

WE have now got to the very heart of the bimetallic question. Will the two metals circulate side by side at the fixed ratio?

Objection based on the argument that gold and silver ties.

Those who oppose the alternative or bimetallic standard say that it is impossible to fix are commodi- the relative values of commodities by law; for instance, one bushel of wheat cannot by law be made exchangeable for two bushels of oats. The two metals (gold and silver) are commodities: therefore the ratio of exchange between them cannot be fixed by law.

Objection based on Gresham's Law.

Some hold that under the operation of the rule that bad money tends to drive out good money, the metal that was the more easily produced would gradually oust the other metal, while others declare that the ratio of exchange between two metals must depend upon demand and supply, and cannot be fixed by law.

Objection based on the law of cost of production.

It is also argued that the value of gold and silver must in the long run be determined in the one case by the cost of production of gold at the least productive gold mine that is worked, and in the other case by the cost of production of silver at the least productive silver mine that is worked, and that it is consequently futile to attempt to lay down a fixed ratio for determining the relative value of gold and silver.

Before proceeding to examine these argu- False impresments in detail, I wish to correct a misapprehen-bimetallism. sion which has been the cause of a great deal of opposition to bimetallism on the part of persons who have formed their opinions without a careful study of the subject.

sion regarding

It is a mistake to suppose that the bimetal- The bimetallists wish to see a law passed which shall fix the wish the marmarket price of gold and silver. No man is to be ket price of gold and silver forced to sell one lb. of gold for exactly 15½ lbs.* regulated by of silver if he can get more for it, or to be prevented from accepting less than 15½ lbs. of silver if he is willing to do so. Under the bimetallic system the State simply undertakes to coin both gold and silver freely if brought to it. It also declares that it will accept indifferently, in payment of money due to it, coins of either metal. the relative amounts of coin required to discharge a debt being determined by the fixed ratio. All persons who enter into agreements with the State involving the receipt by them of

lists do not

^{*}I use the old French ratio of 1 to 151 for convenience, but there is no magic in the ratio of 1 to 151 rather than in the ratio of 1 to 10 or 1 to 20. The ratio of 1 to 151 was the market ratio, or very close to it, in the beginning of the present century; it was adopted as the legal ratio by France, and this decision fixed the market ratio at 1 to 151 for 70 years.

money, must also be prepared to accept either gold or silver coin according to the fixed ratio; and if two private persons enter into a contract involving the receipt and payment of money without specifying whether payments are to be made in gold or in silver, the person who has a payment to make is given the option of making it either in gold or silver, the quantity in each case being determined by the fixed ratio.

They merely wish to see the currency regulated in a certain way, and they hold that the result w'11 a constant between gold and silver.

The value of gold and silver is almost entirely due to their use as money.

Bimetallists do not claim that the market price of gold and silver shall be fixed by law. They desire to see the currency regulated in a certain way; and they hold that if this be done be to maintain the ratio of the market will, for practical purmarket ratio poses, remain unchanged.

> In connection with this question I would call the reader's attention to what was said in page 5, that the value of gold and silver is almost entirely due to their use as money, and that consequently the relative value of gold and silver depends upon the extent to which the different nations of the world use these metals as currency. If one nation after another decided to demonetise silver and to sell the silver contained in its currency, the value of silver relatively to commodities, and still more so in comparison with gold, could be made to fall to a very small fraction of its present value. On the other hand, if the nations of the world demonetised gold and sold their gold, the value

of gold in relation to silver would experience a very great fall.

In short, we see that the demand for gold or silver is due mainly to the extent to which the legislatures of the different countries decide to use these metals as money, and therefore their relative value is, and must continue to be, regulated by legislation.

The only question is whether it is better to legislation. allow the legislatures to act independently in a haphazard way, making the ratio now this, now that, or whether the legislatures should act in unison, with a full knowledge of the problem. and legislate in such manner as to give the world a constant ratio between gold and silver, if it be sidered the possible to do so, and the blessing of prices it should aim? as stable as it is possible to make them by a judicious management of the currency.

The extent of the use of each metal as money depends on legislation.

Therefore the relative value of each metal is regulated, in any case, by

Is it better that the values of gold and silver should be regulated by haphazard legislation or by legislation that has conends at which

CHAPTER VIII.

OBJECTIONS TO THE FIXED RATIO BASED ON THE FACT THAT GOLD AND SILVER ARE COMMODITIES.

using general propositions.

Danger of In taking up the argument based on the contention that gold and silver are commodities. and that consequently the ratio of exchange between them cannot be fixed. I would, in the first place, remind the reader of the dangers that attend the use of general propositions.

Gold and silver. when freely money and made legal tender.are subject to condinot apply to dities.

It is bad logic to prove that the ratio of soined into exchange between wheat and barley cannot be fixed by law, to assert that the ratio of exchange between any two commodities cannot be so fixed, tions which do and to deduce from this general proposition the other commo- conclusion that the ratio of exchange between gold and silver cannot be fixed, when in fact by their being declared to be legal tender at a defined ratio, gold and silver are made subject to conditions which do not apply to any other commodities

> What is true of commodities generally is not necessarily true of gold and silver when they are given a status different from that of all other commodities.

> And, unquestionably, gold and silver when used as money under a bimetallic system,

possess qualities which other commodities do not possess.

I can go into a hatter's and offer him gold or silver coins for a hat with a firm conviction that he will take them in exchange, and with an equally firm conviction that if I offered him wheat he would not take it. I can pay all my debts in gold or silver coin, offering either so many gold coins or so many silver coins. creditors would not be bound to take either wheat or barley. I can pay all taxes in gold or silver coin, choosing either metal, and, according as I choose gold or silver, paying either a less or greater weight of metal according to the fixed legal ratio. I could not pay taxes by delivering wheat or barley, nor is there any fixed ratio at which Government would accept them. If I am cast in damages in a suit, I must pay so many gold or so many silver coins, not so much wheat

I mention these facts to show that though it may be impossible to fix a ratio of exchange by law between wheat and barley, it must not be inferred therefrom that it is impossible to devise currency laws which will, in practice, have the effect of rendering constant the ratio of exchange between two metals forming the basis of the currency.

If gold and silver are freely coined to form the currency of a country, and if they are declared to be a legal tender at a certain ratio, they are thereby made subject to conditions which do not apply to wheat and barley; and it is impossible to argue that what holds good in the case of wheat and barley must also hold good in the case of gold and silver.

CHAPTER IX.

OBJECTIONS TO THE FIXED RATIO BASED ON GRESHAM'S LAW.

LET us now consider the working of the law that Bad money bad money drives out good.

tends to drive out good.

It is almost an axiom that if a currency consists of two classes of coins of the same legal value, but of which one class of coins is intrinsically more valuable than the other; and if there is a demand, other than the demand as money, for the material of which the coins are made, the coins which are intrinsically the more valuable will be withdrawn, to a greater or less extent, to supply this demand.

Why is this the case? For the following Because outreasons. The two classes of coins are of equal value as legal tender, in payment of taxes, or debts, or, by law, in exchange for commodities. But if any one wishes to use the coins for any other purpose than as money, it is to his advantage to use those which are intrinsically the more valuable. Ten of the inferior coins are just as useful in paying debts, as ten of the better coins; but, for all purposes not connected with the currency, the latter class of coins is the more valuable. Therefore the coin which is

side the currency the good money is the more valuable. intrinsically the more valuable will be withdrawn for purposes not connected with the currency. in preference to the other coin, and the reduction of the total amount of the currency will be met by the introduction of an equal number of the inferior coins. In this way bad coin tends to drive out good, because for other purposes than use as money it is more economical to use the good coin.

The effect of this law on a rency is to incresse the coinage of the metal which being is procheaply.

I admit that if coins made of different metals bimetallic our are circulating side by side at a ratio fixed by law, and if the cost of production of one of the metals decreases to a greater extent than is for the time consistent with the fixed ratio, the metal which duoed the more is more cheaply produced will tend to be coined more largely than would otherwise have been the case. If silver and gold coins are legal tender at the rate of 1 to 15%, and if the cost of production would give a ratio of 1 to 17, there will certainly be an increase of the coinage of silver, and a reduction in the coinage of gold.

This increase of coinage creased detends always to maintain the fixed ratio.

The bimetallists, however, contend that if means an in- the ratio fell for an instant from $15\frac{1}{2}$ to 1 to a mand, and ratio of 17 to 1, there would immediately and ipso facto arise an increased demand for silver for coinage and a reduced demand of gold for coinage, and that this increase of demand for silver and decrease of demand for gold would continue until the equilibrium of $15\frac{1}{2}$ to 1 was again brought about.

It appears to me impossible to doubt that if $15\frac{1}{2}$ lbs. of silver serve my purpose as well as one lb. of gold, and if I can exchange one lb. of gold for 17 lbs. of silver, I shall never bring my one lb. of gold to the mint to be coined. I shall prefer to exchange one lb. of gold for 17 lbs. of silver; of the 17 lbs. of silver I shall take $15\frac{1}{2}$ lbs. to the mint to be coined, and I shall have saved $1\frac{1}{2}$ lbs. of silver.

If the ratio fixed by law between the two metals ever ceased in any material degree to be the ratio of the market, the dearer metal would at once be withdrawn from circulation and offered in exchange for the cheaper metal, and this process would go on as long as the divergence in ratio continued. The effect must be to bring about the fixed ratio again, or to withdraw the whole of the dearer metal from the currency.

Either, therefore, the whole of the dearer Under the bimetal will be withdrawn from circulation or the ratio fixed by law between the two metals will become again the ratio of the market. If there or the whole of existed a great and sustained demand for gold metal will be for other purposes than that of currency, it is from the free conceivable that silver might continue at the ratio of 17 to 1 until gold had absolutely ceased to circulate as money, but this result could never come about in practice. Let us assume that there is £700,000,000 sterling of gold coin in fixed ratio prethe world and £700,000,000 sterling of silver coin, and that the annual production of gold and

metallic system either the fixed ratio will be maintained, the dearer withdrawn circulation.

Illustration of the impossibility of any other than the vailing under an universal bimetallic syssilver is £20,000,000 sterling in each case. us further assume that the labour which produced £20,000,000 worth of silver suddenly, owing to the discovery of new and more valuable mines, produces £30,000,000 (at the fixed legal ratio) and that consequently the ratio of the market falls to 1 to 17. Instantly there will be a profit to be made by exchanging gold for silver bullion and bringing the silver to the mint. The £700,000,000 of gold in the currency plus the year's production of £20,000,000 would at once compete in exchange for the £30,000,000 of silver just produced; everybody who owned gold coined or uncoined would hasten to exchange it for silver at the rate of 1 to 17, and would find his profit in paying his debts and taxes at the ratio of 1 to 15½. To suppose that any other ratio than that of 1 to $15\frac{1}{2}$ could be maintained for a single hour when the holders of £720,000,000 of gold were offering it for £30,000,000 sterling of silver at any rate better than 1 to 15½, is absurd.

It is theoretically possible that one metal might be wholly withdrawn from the currency.

If both metals are freely coined into legal tender money throughout the world at a fixed ratio, no other ratio of exchange is possible, unless the production of one of the metals should be so overwhelming, and the demand for the other metal for purposes unconnected with the currency so great, that the whole of the scarcer metal is withdrawn from the currency for other purposes.

Even in the extreme case where one metal Even in the entirely drove the other out of circulation the prices would rise in prices would be less than it would be if than under a we confined the use of silver to certain countries, monon system. and gold to other countries. In the latter case the excess supply of silver would not raise prices in the gold using countries, but it would raise prices to a still higher level in the countries that used silver only, and the increase of price that would result would be higher than if gold and silver had been used in all countries at a fixed ratio and the former metal had been altogether driven out of circulation.

latter case be more stable monometallic

If the currency of the world continued to absorb the total yearly supply of both silver and gold, prices must be higher than if gold had been driven out of circulation and the currency were composed of silver only.

Of course gold might as easily be driven out of circulation by a rise in its cost of production as by a fall in the cost of production of silver; but, as we have already seen, the use of the two metals as legal tender coin at a fixed ratio can in no case give a greater variation in prices than the use of one metal, and would practically in all cases give a less variation.

This law of the bad money driving out the The working good is, therefore, merely the means by which lie system dethe bimetallic system acts. If the cost of production of one metal decreases relatively to the cost of production of the other metal, the former

of the bimetalpends on Gresham's law.

44 THE THEORY OF BIMETALLISM.

will be more largely produced, and will tend to exclude the dearer metal, and the increased production of the one and the diminished demand for the other will be regulated by the fixed ratio.

CHAPTER X.

OBJECTIONS TO THE FIXED RATIO BASED ON THE LAWS OF DEMAND AND SUPPLY, AND OF COST OF PRODUCTION.

THE exchange ratio of two metals must depend on demand and supply. How then can this ratio be fixed by law?

The answer is simple, and has already been given. Under the bimetallic system the market The bimetallic ratio is not fixed by law. The laws regulating the currency are so framed that the demand is for silver when 15½ lbs. of silver can be obtained for less than one lb. of gold, and that the demand is for gold when more than one lb. of gold can be obtained for 151 lbs. of silver.

system controls the price of gold and silver by acting on demand for the two metals.

The law says nothing about the market ratio, but it establishes a currency system, which, by regulating the demand, keeps the market ratio constant. The bimetallic system acts on the market through the law of demand and supply, and not in opposition to it.

It is also said that the cost of production at the least paying mine of each metal must determine its value, and that consequently the law cannot fix the relative values of gold and silver.

I have already shown that under the bi-

metallic system the law does not arbitrarily fix the relative market price of gold and silver; that it merely legalises a system of currency which by the operation of natural laws tends, under certain conditions, to preserve a fixed ratio between gold and silver.

The cost of production is to the fixed ratio by the extension imitation of sach metal, as ж.

In the same way the operation of these laws accommodated is such that mines of one or the other metal either cease to be worked, or are extended, in such manner as to make the cost of production the mines of at the worst paying mine exactly equal to the the case may value of the metal produced at that mine.

> Let us consider again the state of matters assumed to exist in page 19. Ten thousand coins of A metal and 100,000 coins of B metal are produced at the same cost, and one coin of A metal exchanges for 10 coins of B metal. Suddenly an invention is discovered which enables the A metal to be produced for exactly one-half the labour previously expended on it. One pound of A metal would now in ordinary circumstances be worth only 5 lbs. of B metal; but the one lb. of A metal can be taken to the mint and made into coins which serve the same purpose as ten times the same number of B coins. The men who work at producing metal B will immediately see that it is more profitable for them to turn their attention to the production of metal A. By working a month a miner obtains 10 lbs. of B metal: but if he worked at producing A metal, he would produce 2 lbs.,

which would be as effective in paying rent or taxes or in discharging ordinary debts, as 20 lbs. of B metal. He will therefore give up producing B metal and will turn his attention to producing A metal.

In this way the least paying mines of B metal would be abandoned, and new mines (and less paying ones) of A metal would be opened, and this process would necessarily go on until the least productive A mines and the least productive B mines gave exactly the same profit at the fixed ratio of 1 to 10.

The ratio of exchange must depend on supply and demand; but the demand being, ex hypothesi, not a demand for metal A, nor a demand for metal B, but a demand for metal A when the ratio is better than 1 to 10, and a demand for metal B when the ratio is worse than 1 to 10, the supply of the two metals necessarily adjusts itself to the ratio of 1 to 10.

The cost of production in the least valuable mine of each kind of metal will certainly, in the long run, be equal to the value of that metal; but it is not the cost of production that determines the value, but the relative value which leads to the abandonment of the worst-paying mines of one metal and the opening of mines of the other metal until the relative cost of production at the worst-paying mines of the two metals exactly corresponds with the fixed ratio of exchange.

The metals are legal tender at the fixed ratio of 1 to 10, and (if necessary) the production of one metal will increase and that of the other fall off until this becomes the ratio of the cost of production at the two classes of mines which are least productive.

It is of course conceivable that the fixed legal ratio might not be attained even by the total abandonment of all the mines of one of the metals; but in that case, if there were no demand, except as money, for the metal which was the more costly to produce, it would simply cease to be produced.

CHAPTER XI

UNIVERSAL BIMETALLISM NOT ESSENTIAL, UNDER CERTAIN CONDITIONS. IN ORDER. STABILITY OF PRICE.

THE manner by which stability of price, as some hold, is brought about by free coinage of two metals into legal tender money at a fixed ratio, has already been explained; but for the purpose of securing stability of price it is not, under certain conditions, necessary that all countries should coin both metals. The same effect will be produced if a country, or group of countries, with a sufficiently large currency agrees to coin either metal indifferently and to make both kinds of coin legal tender at a fixed ratio, every other country coining one metal only.

Let us suppose that there are three countries Illustration of subject to the conditions assumed to exist in page 19. Each country has a population of 1,000,000, -one country coins A metal only and requires and others 10,000 coins annually; the second coins B metal only and requires 100,000 coins; and the third coins either A metal or B metal at the ratio of 1 to 10, and requires an addition to its currency every year of the same value as the addition to the currency of each of the other countries.

the effect on prices some countries are bimetallic monometallic.

If we assume the production of A metal to be 15,000 coins annually and of B metal 150,000 coins annually, the first nation will coin 10,000 A coins yearly, the second 100,000 B coins, and the third will coin 5,000 A coins and 50,000 B coins

Let us now assume that the production of A coins rises to 18,000 yearly, and consider what will happen.

Each nation will add the same amount in value to its currency, and therefore the excess production will be distributed between the first and third nations, and the proportion of the B metal coined by the second nation will be increased.

If we distribute the two metals between the three countries on the condition that the currency of each country gets an increment of equal value, we find that the first country must add to its currency $11,000 \, A$ coins, and the second $110,000 \, B$ coins, while the third will add to its currency $7,000 \, A$ coins and $40,000 \, B$ coins.

In other words, the value of each of the three currencies remains the same, and the rise in prices due to the excess production of metal A is equally distributed over the whole set.

The result is therefore the same as if all three nations had been bimetallic instead of two being monometallic, one with A metal and one with B metal, the third being bimetallic.

If the over-production of A metal continued

in future years, it will be evident that the third nation would go on absorbing a portion of the surplus and giving up a portion of the B metal to the second nation. On the other hand, if over-production of B metal took place, the third nation would absorb a portion of the surplus of that metal and would give up a portion of the A metal to the first nation.

We thus see that the bimetallic system may be completely carried out although some countries are monometallic, provided there is a country or group of countries which is prepared to coin both metals freely, and to accept them as legal tender at a fixed ratio.

It is an interesting question to determine Limitation of how long a bimetallic country surrounded by monometallic countries can, unaided, sustain the bimetallic system.

the power of a bimetallic country to fixed ratio when other monometallic.

The answer is simple, and is obvious from countries are the considerations that have been already stated.

A single country can sustain the system so long as its currency is actually composed of both metals

If one metal becomes so abundant in com- if the curparison with the other that the latter completely driven out of the country which uses the alternative standard, the principle of com- of one of the pensation ceases to act, and the country that was legal ratio bimetallic becomes practically monometallic.

The market ratio between the two metals

rency of the bimetallic country is totally denuded metals, the ceases to be the market ratio.

will then cease to be constant, and may vary to any extent.

If the metal which was over-produced ceases to be over-produced, and if over-production of the other metal begins, the bimetallic country which was denuded of the latter metal will begin to get it back again as soon as the market ratio returns to the legal ratio.

And it is quite possible that the currency of the bimetallic country might at one time be composed wholly of one metal, and at a future time be composed wholly of the other metal.

Essential condition for the the fixed ratio by a single bimetallic country or a group of bimetallic countries.

What is necessary therefore for the proper maintenance of maintenance of the bimetallic system, when some countries are monometallic, is that the group of bimetallic countries should have a currency so extensive that it will afford complete scope for the play of the two metals according as one or other is over or under-produced, without becoming completely denuded of either metal.

> It has happened that different countries have been at the same time bimetallic, but each with a different fixed ratio.

Ultimate result when different different ratios.

In such cases each metal will drift towards, countries adopt and be absorbed into, the currency of the country where it is most highly valued, and if the difference in the fixed ratios adopted by different countries is of sufficient magnitude to make it worth while to export coin from one country to another, exportation will take place until at last one of the countries only will hold both metals in its currency, and the ratio established by that nation between the two metals will be the ratio which regulates the market price.

The United States were at one time bimetallic at 1 to 16, and France at 1 to $15\frac{1}{2}$. The result was that gold was coined in America and that silver tended to flow from America to France. The stream of silver that flowed to France was not of sufficient volume to totally exclude gold from her currency; and the world still retained the benefits of the bimetallic system at the French ratio, namely, 1 to $15\frac{1}{2}$, the effect of the American ratio of 1 to 16 being to render the United States for the time practically monometallic.

CHAPTER XII.

ILLUSTRATION OF THE MANNER IN WHICH A SINGLE BIMETALLIC COUNTRY REGULATES THE MARKET PRICE OF GOLD AND SILVER.

controlling the market by selling or buying rate.

Possibility of The question of the possibility of a bimetallic State surrounded by monometallic States mainat a cortain taining a fixed ratio may be illustrated in the following manner. Assuming that the ratio of the bimetallic State is 1 to $15\frac{1}{2}$, what that State undertakes to do is this—

- (1) Any person who chooses may bring a pound of gold to the mint and have it coined into gold coins, and may then get 15½ lbs. of silver coins in exchange for his gold coins.
- (2) Or he may bring $15\frac{1}{2}$ lbs. of silver, and by a similar process exchange it for one pound of gold.

The position is exactly the same as if a merchant came into the open market and offered to all-comers either to give 2 bushels of wheat for 3 bushels of barley, or to give 3 bushels of barley for 2 bushels of wheat.

In the latter case no other ratio than that of 2 to 3 could prevail between wheat and barley.

Let us assume that when the merchant offered these terms of exchange the market rate was 2 bushels of wheat to $3\frac{1}{2}$ bushels of barley.

As soon as the merchant made his offer all persons who had barley to sell would resort to him. They would say, "If we can get 2 bushels of wheat for 3 bushels of barley, from this man, why should we give $3\frac{1}{2}$ bushels for the same amount of wheat in the market?" As long, therefore, as the merchant's stock of wheat enabled him to give 2 bushels of wheat for 3 of barley, no holder of barley would take less than 2 bushels of wheat for 3 of barley.

And the holder of barley would find it impossible to get more than 2 bushels of wheat, for if the market rate became $2\frac{1}{2}$ bushels of wheat to 3 of barley, the holder of wheat would say, "I will not give 2½ bushels of wheat for 3 of barley, because I can go to this merchant and get 3 bushels of barley for 2 bushels of wheat." So long, therefore, as the merchant had both wheat and barley in his possession and was prepared to exchange one for the other at the ratio of 2 to 3, no other ratio could possibly prevail in the market. If his stock of either wheat or barley ever became wholly exhausted, he could no longer make the exchange in the case of the grain which he did not possess, and would lose his power of maintaining the ratio of 2 to 3. The case is exactly analogous to that of a bimetallic nation surrounded by monometallic nations.

If a merchant is prepared to sell an article to all-comers at a certain price, no higher price can prevail in the market; if he is prepared to buy it at a certain price, no lower price can prevail. The bimetallic nation is prepared to buy gold at 1 to $15\frac{1}{2}$, therefore no lower price for gold can exist in the market; it is prepared to sell gold at 1 to $15\frac{1}{2}$, therefore no higher price can exist.

So long as the bimetallic nation possesses both gold and silver and is willing to exchange them at 1 to 15½, no other ratio can prevail.

CHAPTER XIII.

RATIO OF EXCHANGE IN EUROPE RETWEEN GOLD AND SILVER UP TO 1870

ALTHOUGH gold and silver have been used as The currency money from the earliest period of which we have has never been any record, the nations of the world have never settled by comcombined to use them in the manner which would give the best results. Each nation has decided for itself whether it would use gold or silver, or both; and if it used both metals, it has decided from time to time at what ratio they should be a legal tender. Not unfrequently adjacent nations have had different ratios, with the inevitable result that each metal flowed towards the country in which the highest value was assigned to it. Very often the coinage has been debased, and sometimes Governments have taken possession of the mines and coined the produce according to their wishes at the time.

In matters of currency the nations of the The result has world have been like men groping in the dark, and their perplexity cannot be better illustrated than by a consideration of the history of coinage in Great Britain, which will have the advantage of leading up to those changes inaugurated in 1871 which have led to the loss of the fixed ratio between gold and silver.

of the world

been confusion.

The English standard was originally sil-

But the coinage was frebased.

And when gold was coined the gold and silver was frequently altered.

The currency established in England by William the Conqueror was a purely silver currency, but in subsequent reigns the coins were frequently debased* by authority, and false coinquently de- age was habitual, notwithstanding the penalties of excommunication, and even of mutilation. In the reign of Edward III. gold coins were for the first time made a legal tender, and the ratio ratio between of exchange between gold and silver coins was from time to time declared by the Government, an alteration being generally made when the silver coin was debased. In the time of James I. it was found necessary to reduce the quantity of gold in the coins and to order that they should pass for a greater number of silver coins. was done to prevent the gold coins from leaving the country. The change was effective for a time, and it actually became profitable to export silver instead of gold.

> In the time of Charles II. it was again found necessary to reduce the quantity of gold in the gold coins. Guineas were first coined in this reign, and were intended to pass current for 20 shillings; but as this rate was not proclaimed by authority, the guinea actually circulated, by public consent, for 21 or 22 shillings, and the

^{*} An account of the debasement of the silver coin will be found in Lord Liverpool's Treatise on the Coins of the Realm. By nine successive debasements, beginning with Edward I. and ending with Elizabeth, the Tower pound of sterling silver, which was at first coined into 20 shillings, came at last to be coined into 58s. 11d.

standard of the country again became silver monometallic.

In the reign of William III. the silver coin- Under William age, which had become very much debased, was called in, and full coins issued, at a cost to the nation of three millions sterling.

III. the purification of the coinage three millions sterling.

In 1717, on the advice of Sir Isaac Newton, the guinea was declared to be worth 21 shillings. The ratio thus established between silver and gold was 1 to 15.21, and as in Spain, Holland, and other countries the ratio was 1 to 14 and 1 to 14.50, silver flowed out of England.

In 1730 the Spanish Government adopted the ratio of 1 to $15\frac{7}{8}$, and then silver flowed back to England. In 1772 Spain reduced the quantity of gold in the gold coins so as to bring about a ratio of 1 to $16\frac{1}{8}$. In 1774 the legal tender of silver coin in England was limited to £25, and it was declared that any offer of payment in silver in excess of £25 should only be a legal tender according to weight at the rate of 5s. 2d. for each ounce of silver. As the silver coin was generally below weight at the time, the practical effect of this law was to establish gold coin as the only full legal tender money, though silver was not formally deprived of its status of legal tender till a later period. The total coinage of silver at the mint from 1717 to 1800 did not much exceed half a million sterling, and a considerable portion of this silver had been taken in war.

In 1786 Spain altered the ratio to 1 to $16\frac{1}{9}$. But the standard of England was practically gold, and continued to be so until 1797, when the Bank of England suspended cash payments. and Bank of England notes became practically a legal tender.

In 1816 England adopted a gold standard. and in 1821 the Bank of England resumed cash payments.

Adoption of the ratio of France.

In 1803 France adopted the legal ratio of 1 to $15\frac{1}{2}$ and as the French metallic coinage was sufficiently large to maintain this ratio against other countries, it became the ratio of the civilised world until, after the lapse of 70 years, France refused to coin silver freely, and so destroyed the ratio.

Effect of the French ratio silver.

The effect of the legal French ratio of 1 to on the price of $15\frac{1}{2}$ in steadying the price of silver up to 1870 is shown by the following table, which I have extracted from a work by Ernest Seyd :-

Years.	Years,		Relative value of gold and silver in Hamburgh from 1801 to 1832, and in London from 1832 to 1870.			
18011810		24 to 76	1 to 15:61			
1811-1820		25 to 75	1 to 15.51			
1821-1830	•••	33 to 67	1 to 15.80			
18311840		35 to 65	1 to 15.75			
1841-1850	•••	52 to 48	1 to 15.83			
1851-1855		78 to 22	1 to 15.76			
1856-1860	•••	78 to 22	1 to 15.76			
1861-1865	•••	74 to 26	1 to 15.48			
1866-1870		69 to 31	1 to 15:48			

During the whole of the period to which this

table refers France was never completely denuded of either silver or gold, and was always prepared to coin either gold or silver into legal tender money at the ratio of 1 to $15\frac{1}{6}$. If, then, there is truth in the bimetallic theory, the ratio of gold to silver must have been maintained at 1 to $15\frac{1}{6}$.

An examination of the last column of the table shows that the ratio in Hamburgh and London was maintained very nearly at 1 to 15½, but that there were slight variations, the ratio ranging between 1 to 15.48 and 1 to 15.83. The explanation of these slight variations is Explanation of this:—The ratio in France was 1 to $15\frac{1}{2}$; a ation in the merchant in London, who had gold for which he market price wished to get silver, was obliged, when silver the French was not forthcoming in London, to incur the cost of sending his gold to Paris; he could then exchange it for silver at 1 to 15½ (paying, however, a trifling sum to induce the Banks to take the trouble of giving him silver instead of gold), and he had also to bear the cost of bringing his silver back to London. In these circumstances the person who wished to exchange gold for silver in London would get something less than 15½ lbs. of silver for one lb. of gold when there was a flow of gold towards France. If it so happened that there was a flow of silver at the time towards France, he would get rather better terms than 15½ lbs. of silver for one lb. of gold, because the holders of silver could only get

the slight variof silver from legal ratio.

one lb. of gold for 15½ lbs. of silver after they had sent their silver to France, and they would consequently be prepared to sell their silver on easier terms in London and so save the cost of transport. Allowing for inevitable slight fluctuations due to these causes, we see that the French bimetallic system did absolutely maintain the ratio of 1 to 151 between gold and silver down to 1870.

The steadiness in the price of 1803 to 1870 conclusive as to the possibility of mainratio between gold and silver.

It has already been shown at page 9 that in silver from the first half of the present century the value of the silver in the world exceeded the value of the gold, and that silver discharged a larger proportaining a fixed tion of the duties of money than did gold, the the values of ratio being about 8 to 5. In these circumstances, if the bimetallic theory be wrong, a constant market ratio could only have been preserved between silver and gold if the production of the two metals had been in the proportion of 8 to 5; in other words, if the production of each metal had been exactly proportioned to the extent to which it discharged the duties of money.

> The relative production of silver and gold during the first 20 years of this period was very nearly as 8 to 23, and yet a constant ratio between the two metals was maintained. During a second period of 20 years the ratio of production was very nearly as 8 to 4, and the same relative value of $15\frac{1}{9}$ to 1 was maintained. From 1841 to 1850 the ratio of production was nearly 8 to 8, and yet the ratio of value was maintained

at $15\frac{1}{2}$ to 1. From 1851 to 1860 the ratio of production was not far from 8 to 28, and yet the ratio of value was still maintained at $15\frac{1}{2}$ to 1. From 1861 to 1865 the ratio of production did not vary greatly from 8 to 23, and from 1866 to 1870 it was 8 to 18, and yet the ratio of value remained at $15\frac{1}{2}$ to 1.

To contend, in face of the facts stated in this chapter, that the legal ratio fixed under the bimetallic system between gold and silver when used as money will not control and regulate the market price of the two metals, is simply to abandon reason, argument, and experience, and take refuge in assertion.

CHAPTER XIV.

CAUSE OF THE DIVERGENCE IN THE RELATIVE VALUE OF SILVER AND GOLD SINCE 1873.

between gold ceased to exist.

The old ratio A RATIO of 1 to 151 between gold and silver and silver has corresponds to a price of 60%d. per ounce for silver; the present price of silver in London is about $47\frac{1}{6}$ d. per ounce: and the ratio of 1 to 15½ between gold and silver, which was maintained from the beginning of the present century up to 1873, has ceased to exist. The relative production of silver and gold has been very nearly the same during the last few years. How then does it happen that the fixed relative value of gold and silver, which was maintained when the production of silver was three times that of gold, and again when the production of gold was nearly four times that of silver, has now completely disappeared?

Demonetisation of silver by Germany.

To answer this question we must go back to the Monetary Conference held at Paris in 1867. That Conference aimed at an universal uniform monetary unit to be established by international agreement, and, confining its attention to one aspect of the monetary question, recommended

the universal adoption of the gold monometallic standard. Its recommendations here no fruit for a time: but when the King of Prussia became Emperor of Germany, and more intimate relations were established between the different German States, an obvious and valuable reform was the substitution of a currency issued under the authority of the German Empire for the separate currencies of the different States. Germany possessed at this time the silver standard, and might under the new system have either continued that standard or adopted the bimetallic standard; but she had received an indemnity of £200,000,000 from France, and felt herself in a position to introduce the gold monometallic standard

At this time some nations were gold mono- state of the metallic, others silver monometallic, while others the world in again were bimetallic. Several nations that were nominally monometallic with a gold or silver standard, and the United States that was nominally bimetallic at the ratio of 1 to 16, possessed forced paper currencies. Many other nations had a gold, or silver, or a bimetallic standard, subject, however, to various defaults and limitations owing to restrictions placed by law on the coinage of one or other or both of these metals.

The countries that effectively maintained the gold standard were Great Britain, Australia, the Cape, and Canada; the countries that maintained

effectively the silver standard were China, India, Germany, Holland, Denmark, Sweden, Norway, and Mexico. The countries that really maintained the bimetallic system were France, Belgium, and Switzerland. The chief countries with a forced paper currency were Turkey and Brazil with a nominal gold standard, Italy and the United States with a nominal bimetallic standard (the latter at the non-effective rate of 1 to 16), and Austria and Russia with a nominal silver standard.

Germany took preliminary steps towards the demonetisation of silver in December, 1871, brought the change into operation in July, 1873, and no longer coins silver freely, although she has not been able to withdraw the whole of her silver money.

Germany was followed by the Scandinavian nations and by Holland.

She was quickly followed by Denmark, Sweden, and Norway, who altered their silver standard to a gold standard in 1873. After 1874 Holland also ceased to coin silver as legal tender money, and in 1875 began to coin gold.

Finally the Latin Union suspended free coinage of silver. In 1874 the Latin Union—France, Belgium, Switzerland, and Italy—suspended the free coinage of silver, the bimetallic principle ceased to operate, and the ratio of exchange between gold and silver varied just as the ratio of exchange between any two commodities not used as money would vary.

As the effect of the changes initiated by

Germany was to throw on the market a quantity of silver to be exchanged for gold, to limit the extent to which the duties of money were performed by silver, to increase the extent to which these duties were performed by gold, and as this change coincided with an increase in the production of silver as compared with gold, the inevitable result was a fall in the value of silver as compared with gold.

In 1873 America had altered her nominal America adopts bimetallic to a nominal gold standard. When dard. she resumed specie payments her nominal gold standard became a real standard, and an influence tending to raise gold still higher as compared with silver was brought into play, which has, however, been somewhat checked in its operation by the Bland Bill.

Under this law, passed in 1878, the But coins not must coin not less than 2,000,000 dol-United States 2,000,000 of dollars in silver every month at the ratio of 1 to 16, and has been doing so since 1878.

lars in silver

The total amount of silver coin coined under of the silver the Bland Bill up to 1st October, 1884, was by no less than 182,380,829 dollars. Against 96,491,251 dollars of this amount silver cer- ing idle. tificates had been issued, while 40,322,042 dollars had actually been put in circulation, and 45,567,536 dollars were lying idle in the treasury.

dollars coined about onefourth are lyFall in the price of silver since 1873.

The following table shows the average price of silver in London for every year since 1852:—

	er ounce.				:	Per	ounce.
1852	6011	1869					601
1853	61.6	1870					60 1
1854	. 611	1871					6078
1855	. 611	1872					601
1856	. 6178	1873					591
1857	. 614	1874					585
1858	. 61,2	1875					56
1859	. 62	1876					$52\frac{1}{4}$
1860	. 6111	1877					54
1861	. 604	1878					$52\frac{1}{16}$
1862	. 61	1879					51 1
1863	. 61 1	1880					$52\frac{1}{4}$
1864	. 61	1881					5111
1865	, 61	1882					51
1866	. 611	1883					50-
1867	. 60 0	1884					50∯
1868	. 60	1885	(to	20th	Octobe	r)	48

CHAPTER XV.

EFFECTS OF THE DIVERGENCE IN THE VALUE OF GOLD AND SILVER.

WE now come to the important question of the silver fallen in effects produced by the divergence in the relative than 19 per value of silver and gold which has followed the legislation initiated in 1871.

value more cent. as compared with gold.

Silver had fallen in value as compared with gold nearly 19 per cent. in the early part of 1885, and has since fallen even lower.

The result of this fall which causes the most Burden frequent complaints is the burden imposed thereby on all persons whose incomes are in silver and their expenditure in gold. hardship has been caused to all European officials serving in India, and the financial position of the Government of India has been seriously affected. The Government of India has large gold liabilities in England, and finds that these liabilities require for their discharge the payment of a very much larger number of rupees than was formerly the case.

Another evil is the additional uncertainty in Uncertainty inthe operations of commerce between gold-using certain classes and silver-using countries, due to the fluctuation of commercial transactions. in the relative value of gold and silver.

posed on all persons whose incomes are in silver and their Great expenditure in

troduced into

Obstruction to the free investment of capital.

A further evil is the disinclination of capitalists to seek investments in countries that have a silver standard. The greatest reservoir of capital is to be found in London, and capitalists whose capital is in gold hesitate to invest their money in a country which has a silver coinage. A man who invested £1,000 sterling in India some years ago now finds that it is worth about £800. owing to the fall in the relative value of silver. Consequently capital is discouraged from flowing to silver countries. India loses because she has to pay a higher price for the capital she requires, and capitalists lose because India will not at this high rate take as much capital as she otherwise would. The evil is no imaginary one. Government of India can borrow in gold nearly 3 per cent. cheaper than it can borrow in silver. The Indian gold 31 per cent. stock is above par. The Indian silver 4 per cent. promissory notes are below par. The difficulties connected with the finding of capital for Indian Railways and for the great works projected by the Municipalities and Port Trusts of Bombay and Calcutta in the present day are of a very practical nature

Although the evils just mentioned are of such magnitude that it would be very desirable to adopt measures for removing them, if this could be done otherwise than at an excessive cost, they are not intolerable, nor very grievous except to the Indian Government and the limited number of people whose incomes are in silver and their expenditure, or a portion of it, in gold.

The question of the appreciation of gold since Appreciation the partial demonetisation of silver is of much of gold. more importance as regards the welfare and industry of the world.

The European nations have for the time practically demonetised silver, though they have refrained from throwing, except to a comparatively limited extent, their stock of silver on the public market.

Gold is now called on to do more work than it would have done if the old order of things had not been changed; to exactly the same extent silver is doing less work than it would have done. As gold is doing more work, the effect of the change must have tended to lower gold prices; as silver is doing less work, the effect of the change must have tended to raise silver prices.

The value of the total amount of gold in the hands of man is very nearly the same as the value of the total amount of silver: if France had remained bimetallic, the amount of work done by gold and silver respectively would have been automatically adjusted so as to preserve the ratio of 1 to 15½; as matters now stand gold does more work than it would have done, and silver does less work by exactly the same amount; the extent to which prices have been lowered

bable hypotheprices have 9.5 per cent. and silver prices raised by the same amount

in the case of gold should, therefore, be very nearly the same as the extent to which they have been raised in the case of silver. The most pro- total divergence between gold and silver being ais is that gold taken at 19 per cent., we might fairly expect been lowered that the changes made since 1871 should have lowered gold prices about 9.5 per cent., and should have raised silver prices by about the same percentage.

And here I would caution the reader that it

does not necessarily follow from what has been said above that gold prices must have actually fallen or silver prices risen, or that gold prices must have fallen as much as 9.5 per cent., or silver prices risen in a like proportion. The influences which affect prices are infinite in number and variety. The quantity of gold or silver used as money is only one of these influences, and the effect of the appreciation of gold, or depreciation of silver, may be aggravated, or counteracted, or entirely obscured, by an increase or decrease of production, by the extension or restriction of credit, as well as by many other causes. We cannot say that the more extended use of gold has actually lowered gold prices by 9.5 per cent., or that the limitation of the area within which silver is used has actually raised silver prices by 9.5 per cent.

But the effect on prices of the relative use of gold and fall of silver in value may be obscured by many other influences.

> All we can say is that gold prices would in all probability be 9.5 per cent. higher than they actually are if there had been

no change in the relative use of gold and silver, and that silver prices would in the same case have probably been lower by 9.5 per cent.

It will also of course be understood that I do In any market not for a moment mean to say that the tendency silver, and comto higher or lower prices is to be measured by the exact percentage of 9.5 in each case. total divergence between gold and silver is about change in the 19 per cent.; and the most probable supposition of gold and silwe can make is that half of the divergence is due to appreciation of gold, and half to depreciation of silver. But the appreciation of gold may have been more, and the depreciation of silver less, or the opposite. All we know with certainty is that the appreciation of gold plus the depreciation of silver, due to the partial demonetisation of silver, has amounted to a variation of 19 per cent.; and it will be obvious that, wherever the same commodities are bought and sold for gold and silver, a variation of 19 per cent. in the relative value of gold and silver must be followed by a variation of exactly the same amount between the gold and silver prices of commodities.

Whether the effect has been to make gold prices lower than they would otherwise have been by 19 per cent. or silver prices higher by 19 per cent., or whether gold prices have been kept down to the extent of 9.5 per cent. and silver prices kept higher by 9.5 per cent.,

where gold, modities generally are exchanged against each other, the relative value ver must have produced a variation equal amount in gold and silver prices.

we cannot say; but the last supposition is certainly the more probable.

The evidence of an actual fall in gold prices in recent years is overwhelming, and will be considered in a separate chapter.

CHAPTER XVI

THE FALL IN GOLD PRICES.

In examining the question of the fall in gold prices it will be best to go back for a number of years, to inquire what has been the actual course of prices during the past half century, to note the causes which have produced fluctuations. and then to endeavour to ascertain to what extent prices have fallen since the partial demonetisation of silver.

The first authority to whom I shall appeal is Opinion of Mr. Newmarch. the late Mr. William Newmarch.

In May, 1878, Mr. Newmarch read a paper before the Statistical Society "On the Progress of the Foreign Trade of the United Kingdom from 1856 to 1877," in which he made some valuable remarks on the course of gold prices.

When the great gold discoveries took place in the middle of the present century, Mr. Newmarch was one of the few persons who held that the extravagant anticipations of rise in prices, owing to the increased supply of gold, held by most persons, were erroneous, "and that after a short time the extension of commerce, the stimulus given to invention and enterprise by fresh markets, and the consequent infinite mul-

tiplication of transactions far exceeding any previous experience, would prevent before long any undue rise of prices by mere force of increased quantity on the side of the new gold; that most emphatically the end to be feared was, not that the new supplies of gold would continue, but that by any possibility they might fall away or cease; and, in short, that the world ought to rejoice if a new gold-field could be discovered every few years."

In dealing with the subject of prices, Mr. Newmarch made use of the average price, mostly in London, of the chief commodities of raw materials, food, and tropical produce, and carried his inquiries, with the help of figures given by Professor Jevons, back to the year 1831.

Fall in prices in the period preceding the great gold discoveries of the present tury.

The following table shows the progress of immediately prices, according to Mr. Newmarch, from 1831 to 1850, the period immediately preceding the great gold discoveries :-

All commodi	ties observed	l. Average price.
1831—35		. 114
836-40	•••	124
1841-45		. 107
184650		. 100

These figures indicate a marked fall in prices during the 20 years ending with 1850.

On this point Mr. Newmarch remarks as follows :---

"Careful observers had begun to recognise the fact, of which there is now no question, viz., that for about 20 years prior to 1848 the annual supplies of gold had been insufficient to meet the wear and tear of the coin in use: the requirements of the arts; and the needs of enlarging industry, commerce, and population. There had been a slow, but steady and progressive, tendency towards lower prices; and, therefore, towards a discouragement of enterprise in which lapse of time and the state of distant markets had to be considered"

Before 1847 the annual supply of gold had been about 4 millions sterling yearly. In 1850 it rose to 9 millions sterling, and in 1856 it is believed to have exceeded 32 millions sterling. From that date there has been a steady tendency to decrease, and in the present day, the total production is believed to be under 20 millions sterling.

The effect on prices of the increased produc- Rise of prices tion of gold was very marked, as the following after the great gold discovertable, taken from Mr. Newmarch, shows:-

after the great

All commodities 'observed.		Average price
Average of 1851 and 1853		112
Average from 1857 to 1859		125
Average from 1860 to 1864		141
Average from 1865 to 1869	\	138
Average from 1870 to 1874		128
Average from 1875 to 1877		125

The American War affected the average

from 1860 to 1869 by raising the price of cotton and other articles, but, making every allowance for this influence, we see that the gold discoveries of the middle of the century were followed by a rise of prices, which showed signs of falling off after 1869, though no very marked change could be traced even in the period extending from 1870 to 1877.

Opinion of Mr. Giffen. In January, 1879, Mr. Robert Giffen read a paper before the Statistical Society in which he dealt with the question of the fall of prices of commodities.

Serious fall in prices between 1873 and 1879. He took sixteen commodities which had been selected in 1874 as being fairly representative and suitable for recording prices, and he showed that between 1st January, 1873, and 1st January, 1879, there had been a fall of price varying from 66 to 10 per cent. in the case of different articles.

To obviate the objection that he was comparing a period of depression with one of inflation, he examined prices for a series of years, and came to the conclusion that there was a great and unusual fall. He ascribed the fall to a great stimulus to production, to the bad harvests of 1875, 1876, and 1877, and to the appreciation of gold.

Fall in prices of gold.

held by Mr.
Giffen to be partly due to insufficiency of gold to meet the demands on it.

The German to the University of gold to the the Linius of gold to the gold to the the Linius of gold to the gold to th

The appreciation of gold he held to be due to the extraordinary demands upon it to supply Germany with a new gold coinage and to enable the United States to resume specie payments. But he was not disposed to ascribe the whole of the fall in prices to the temporary and extraordinary demands of Germany and the United States. I quote his own words:—

"The question is infallibly suggested, however, whether there is not a subtler cause at work—an actual insufficiency of the current supply of gold for the current demands of goldusing countries."

His opinion in 1879 was that some such cause probably was at work, and he based this conclusion on the undoubted falling off of gold supplies during the preceding 20 years, coupled with the "enormous increase of current demands."

These current demands were due to increase of population, wealth, and trade, as well as to an extension of the area of gold-using countries by the inclusion of France, Germany, and the United States.

"In this view the fall of prices in the last ten years has been aggravated by a subtler cause than the extraordinary demands for gold which have existed. These demands have come upon a market which apparently had no surplus to spare. They have consequently been supplied very largely by a continued pressure upon existing stocks, till an adjustment has at length been made by a contraction of trade and a fall in values."

Mr. Giffen evidently anticipated in 1879 a

further fall in prices from the continued scarcity of gold, and though he did not look with the same apprehension on the result that many other authorities expressed, the practical conclusion he drew was-" That the scarcity of gold which has contributed to the present fall of prices, and may have further serious effects in future, should, if possible, be mitigated, and should at any rate not be aggravated, by legislative action." He declared against the abolition of small notes by countries which still retained them, on the ground that it would lead to a further demand for the precious metal, and added:-"Still more we ought to deprecate any change in silver-using countries in the direction of substituting gold for any part of the silver in use. It would be nothing short of calamitous to business if another demand for gold like the recent demands from Germany and the United States were now to spring up."

Mr. Giffen opposed to any further demonetisation of silver.

CHAPTER XVII.

FURTHER EVIDENCE REGARDING THE FALL IN GOLD PRICES AND ITS CAUSE.

In April, 1883, the Right Hon. Mr. Goschen, M.P., read a paper before the Institute of Bankers on the "Probable Results of an Increase in the Purchasing Power of Gold," in which he carried somewhat further the line of argument adopted by Mr. Giffen.

Opinion of Mr. Goschen that the fall in gold prices is due to the additional burden thrown on gold.

Mr. Goschen estimated that in the 10 years ending 1883 no less than £200,000,000 sterling had been required for the purpose of providing a new gold coinage for Germany, Italy, and the United States of America.

He held that the application of £200,000,000 of gold to purposes for which it had not been required 10 or 14 years before must, cateris paribus, cause a fall in prices; and he brought forward tables showing that there had been a remarkable fall between 1873 and 1883.

The following table was given by him to illustrate this portion of the question:—

			corner palmage const. In			Prices in 1873.	.E	1873.						Prices in 1989.	.5	28			
Sugar—Brown Manilla	:			해 박	A.	40	₹9	નહ	je je	cwt.	બ	4	79	40	* 52	40	De Le	per cwt.	
Good and fine West Inc Tes—sound common Congou	ndian	: '	: :			-0	60	0 1 1 1	, det	وَمِ	0	0	10	0 0	00	0 10	Der	يغ	
_	Jeylon	•		61 6		0 0 4	1-0	00	per	cwt.	•	•		8 8	10	00	. F.	CM	
Rangoon	:	•				200	16	0 %	ber ber					20	0	90	19d a	. 5	
Pepper	: :	• :	: :			•	0 :	-	E E					0	-00	4		.	
Iron—Scoth pig Lead—English	: :	: :	: :			21 °	2	0	per	ton.				2 22	2	0	製	5 g	
Copper	:	:				91	00	00	-	•				65	00	00		2	
Wool-English Sheep's, half Hog, hal	g, half	f Wether				0	24	9 69 6	per]	. . .				0	0	10,	per lb.	٠ <u>.</u>	
Australian—Average Victoria Washed	ctoria	Washed	. :			00	20 cs	m 0	r r	-				00		\$ 0	•		
Alpaca Cotton-Middling Upland	: :	::	::			000	200	၈ ၈ ဒီ	£ x	_				000	-0	m 10.	•	• •	
Cochineal	: :	: :	: .			0	2	54	x x					0	0	10	• •		
Indigo Hides—River Plate, heavy salted	: :	: •	::	0	ෆ	3 to 0	-0	8	r =		0	9	6 to	0 0	90	27	• •		
Jute	: :	:	: :			16	00	**********	rer.	" rer ton.	10	10 10	0 to	0 [00	\$0	Der	ber ton.	
Nitrate of Soda	:		:	0 16		0 to 0	16	9	per	per cwt.				0	12	0	per	per cwt.	و.
	:		:				25	<u>ه</u> د	Tor	",				0 0	19	0 0	2	*	
	:	:	:			•	•	•	\$					•	2	•	ξ,		

Mr. Goschen also gave a table showing the prices of certain other articles in 1873 and 1881 ----

	1873.	1881.
Paper for writing and printing Silk, per lb Timber, per load, hewn Stones Mahogany Railway carriages Boots and Shoes, per doz. pairs	£ s d. 3 0 9 1 1 0 3 5 0 10 0 0 11 12 0 111 10 0 3 4 9	£ s. d. 1 16 3 0 17 0 2 12 0 5 0 0 9 5 0 85 0 0 2 17 2

The fall in price shown by these tables proves that the purchasing power of gold increased in a very remarkable degree after 1873.

It was contended, in opposition to Mr. The year 1873 Goschen's view, that a comparison of the prices of 1883 with that of 1873 was not a fair comparison, because 1873 was a year of inflation, when prices were specially high. This objection is not without force, as will be seen by an examination of the figures given by Mr. Newmarch.

Mr. Newmarch's figures for the period from 1865 to 1877 are as follows:--

1865							152
1866							150
1867							133
1868							129
1869							123
1870							121
1871				-			120
1872					•		135
1873							135
1874		•			•		130
1875		•		•	•		125
1876	•	•		•		•	120
1877	•	•	•		•	•	121

one of inflation.

These figures show that 1872 and 1873 were years of high prices as compared with the four preceding years.

But even after making every allowance for the high prices of 1873, a very remarkable fall of prices during the last ten years or so has taken place. This was shown by Mr. Goschen in a letter to the Times, in which he appealed to so-called "index numbers" given every year by the Economist, which represent the wholesale prices of twenty-two of the most important commodities of the English market in successive years, and which may be taken as an approximate measure of the rise or fall in prices.

The figures of the *Economist* are here given:—

Year.				Total	Index No.
1845					2,200
1857, J	ulv 1st .				2,996
1858, J	anuary 1st	-		-	2,612
1866	,,				3,564
1867	11				3,024
1870	11	•			2,689
1871		•	•	•	2,590
1872	99	•	•	•	2,835
1873	97		•	•	2,947
1874	9.9		•	•	2,891
1875	**	•	•	•	2,778
1876	••	•	•	•	2,711
1877	**	•	•	•	2,723
1878	**	•	•	•	2,529
1879 .	**	•	•	•	2,202
1880	**	•	•	•	2,538
	**	•	•	•	
1881	"	•	•	•	2,376
1882	9.9	•	•	•	2,435
1883	"	•	•	•	2,343
1884	,,	•	-	•	2,221*
1885	**	•	•	•	2,098*

^{*} These figures are taken from an article by Mr. Giffen published in the Contemporary Review for June, 1885.

This table is conclusive as to the great fall But, apart in prices which has taken place of late years—a tion of 1873, fall which is remarkably steady in its nature, and which has now brought prices back to the old level of 1845-50 before the great gold discoveries. There is, indeed, no room for argument on this point: and the only question is to what extent the fall in price is due to the greater demand for gold in consequence of the partial demonetisation of silver and of the substitution of gold for paper in Italy and A merica

from the inflathere has been a continuous and steady fall in prices.

This aspect of the question was dealt with Opinion of Mr. Hansard that by Mr. Hansard in a paper read before the the fall in Institute of Bankers in December, 1884. Mr. mainly to Hansard examined the prices of twenty-five cheaper production and commodities during the years from 1874 to over-supply. 1883, inclusive. He found that the prices of twenty-one commodities had fallen as compared with 1874, while during the same period the stock in hand of fifteen articles had increased and the stock in hand of ten had decreased

Of the ten commodities showing a decrease in stock, seven also showed a decrease in price. Mr. Hansard gave reasons for supposing that the effective stock was really greater than his figures showed in the case of articles which apparently had not increased in stock. But all speculations of this kind are uncertain, and the reverse process might be applied to all commodities which had apparently increased in stock.

Mr. Hansard's final conclusions were that there had been a marked and general fall in prices during the decade 1874—83; that the fall had occurred, partly owing to greater facilities of production, and consequent lessened cost, than formerly, but mainly from over-production; and that this over-production had probably been caused by the opening up of new and more abundant sources of supply.

Opinion of M. Paul Leroy-Beaulieu.

M. Paul Leroy-Beaulieu appears to take the same view as Mr. Hansard, witness the following passage written in April, 1884:—

"It is evident then that there can be no doubt of the actual existence of this diminution of prices, and on this point one can hardly understand that there should be any diversity of opinion. We ourselves have found during the last two years that prices have become, if not universally, yet generally, lower, and the decline moreover has been for the most part of a permanent and durable character, and not merely a temporary fluctuation, which will be corrected by an immediate rebound.

"It is even more than probable that as regards a vast number of articles this decline will eventually become more accentuated; and we must express our firm conviction that the period is not far remote when the prices of

the greater part of the necessaries of life will be within the reach of all at a considerably reduced rate

"To account for this decline there are many circumstances which must be taken into consideration: but the causes which have been chiefly instrumental in producing it may be summed up as follows:-the opening up and development of new countries, or the regeneration of old ones which had fallen into barbarism and have been reclaimed and brought under the influence of civilisation: the increased facilities in the means of transport, and the state of perfection to which they have been brought, and the continual reductions which are being made in tariffs and tolls on railways and canals; the constant augmentation of capital and increase of industrial competition, both of which are instrumental in causing the rate of interest to be lowered, and in forcing the trading community to be content with very moderate profits."

It must be admitted that the arguments of Fall in prices Mr. Hansard and M. Paul Leroy-Beaulieu have to much force in them, and that the causes stated causes. by them have had a great, and no doubt a lasting, influence on prices. But, on the other hand, I find it equally impossible to believe that the monetary legislation initiated in 1871, which has caused so great a divergence in the value of gold and silver during the last 12 years,

has not also had a very material influence on prices.

Formerly gold and silver divided the duty of money between them in such manner as to preserve a constant ratio of value of 1 to $15\frac{1}{2}$.

Now the duty discharged by gold has been increased, and that discharged by silver diminished, so that latterly the ratio has varied between 1 to 19 and 1 to 20.

This change must have either tended to cause gold prices to fall or silver prices to rise, or must have had both effects. What grounds have we for saying that it has not affected gold prices, but has affected silver prices? Would it not be just as reasonable to say that it has not affected silver prices, but has affected gold prices? And is it not certain that it has acted partly in the one direction and partly in the other?

Increased supply of commodities has no doubt affected prices, but I do not see why we should doubt that the increased demand for gold has also affected them. Two causes are shown to exist which would tend to lower prices, and it would be unreasonable to say that the actual fall in prices is due to one only of these causes.

There certainly has been of late years a remarkable correspondence between the range of prices in England and the rate of exchange between gold and silver. I place side by side the index numbers of the *Economist* for every year since 1873, and also the price of silver per ounce on the corresponding date—

Year.		1	Index No	•	Pri	ees of silver per oz.
1873			2947			593
1874			2891			59
1875			2778			575
1876			2711			53 է
1877			2723			57 \
1878			2529			53 รี้
1879			2202			49§
1880			2538			$52\frac{\tilde{s}}{18}$
1881			2376			51
1882			2435			52
1883			2343			50 rs
1884			2221			51
1885			2098			497

The coincidence shown in this table cannot be the result of accident.

Prices are high in England when exchange with the silver-using countries is high, and vice versá. But it cannot fairly be said that it is the low rate of exchange that makes low prices, because low prices in England have also the effect of reducing the rate of exchange. When the price of silver falls, there is a tendency to a fall of gold prices of commodities in England; when the gold prices of commodities fall, there is a tendency to a lower price for silver.

The two causes react on each other, and in the present day the rate of exchange in India and the general prices of commodities in England rise and fall together. I see no reason to doubt that a bimetallic system with a fixed ratio between gold and silver would have a steadying influence on prices in England, and would tend to keep them at a higher level.

CHAPTER XVIII.

RATIO OF EXCHANGE OF COMMODITIES FOR SILVER IN ENGLAND SINCE 1845, AND LATEST OPINION OF MR. GIFFEN.

To ascertain what has been the exchange value Silver prices of of commodities in comparison with silver in the the English English market, I have converted the index numbers of the Economist into figures which represent silver prices, according to the price of silver on the dates to which the numbers refer. The result is given in the following table, in which I have also given the average of the gold and silver prices; these average prices may, for the sake of argument, be assumed to represent both gold and silver prices, as they would have stood if France had not stopped the free coinage of silver at the old fixed ratio.

In preparing the table on p. 92 I have taken the price of silver from 1845 to 1850 as the standard, and consequently the gold index number for that period is the same as the silver index number. From 1857 to 1874 the gold and silver index numbers closely agree, because the French bimetallic ratio prevailed during that period, and the market price of silver could only vary slightly from that ratio; the silver index numbers are,

commodities in

however, rather lower than the gold numbers, because from 1857 to 1874 the price of silver was rather higher than it was during 1845-50.

	Year.		Total Index No. (gold).	Total Index No. (silver).	Average
184550)		2200	2200	2200
1857, Ju	ly 1st	.	2996	2892	2944
1858, Ja:	nuary la	it	2612	2529	2570
1865	,,		3575	3458	3517
1866	,,		3564	3437	3501
1867	,,		3024	2958	2991
1868	,,		2682	2635	2659
1869	**	.	2666	2613	2640
1870	,,		2689	2641	2665
1871	"		2590	2547	2568
1872	,,		2835	2790	2812
1873	,,		2947	2933	2940
1874	91	!	2891	2930	2911
1875	**	. 1	2778	2874	2826
1876	**		2711	2905	2808
1877	**		2723	2832	2777
1878	**		2529	2791	2660
1879	**	1	2202	2642	2422
1880	79		2538	2889	2714
1881	,,,		2376	2774	2575
1882	**	.	2435	2787	2611
1883	11		2343	2786	2565
1884	,,	. !	2221	2593	2407
1885	"		2098	2505	2302

Since the partial demonetisation of silver, both gold and ailver prices have fallen. but the former rapidly and to a lower point.

After 1873 gold prices gradually declined, and so did silver prices, but the latter fell more slowly than the former, and, with the exception of 1879, showed no serious decline till 1884. fell more After 1877 the fall in gold prices was very rapid, and has been practically continuous up to the present year.

> If the bimetallic ratio had been maintained. we know that prices, both gold and silver, would have lain somewhere between what has been the

actual course of gold prices and of silver prices: would, in fact, have taken some such course as that indicated by the arithmetical mean between the two sets of prices.

We see then, that, notwithstanding the rela- The partial detive depreciation of silver consequent on the monetary changes begun in 1871, the high prices of 1872 and 1873 have not been maintained in would in any silver. The partial demonetisation of silver has curred. not caused a rise in silver prices, but appears to have checked the fall which would otherwise have taken place. Even in silver prices the fall has been very great in 1884 and 1885.

monetisation checked the fall in silver prices, which case have oc-

The most probable conclusion is that, even if And aggravasilver had not been partially demonetised in table fall in Europe, gold prices would have fallen, but that they would neither have fallen so rapidly nor so far as they have done.

ted the inevigold prices.

I cannot doubt that both parties have right on their side in their controversy as to the cause in the fall of gold prices—that gold prices have fallen on account of the increased supply of commodities, and that they have also fallen on account of the increased share of the duty of money thrown on gold. The values in silver of the principal commodities of the English market fell very little before 1884. In 1884 and 1885 the fall in silver prices also has been marked. The obvious conclusion is that the increased supply of silver in proportion to the share of work it had to do has partially counteracted a

fall in silver prices that would otherwise have taken place. In any case there would have been a fall in prices; the fall in gold prices has been aggravated by the partial demonetisation of silver; the fall in silver prices has been mitigated by the same cause.

Latest opinion of Mr. Giffen.

The question of the fall in prices was again discussed by Mr. Giffen in an article published in the Contemporary Review for June, 1885.

His conclusion is that, "Taking a still more extended view of the subject, there seems no small reason to believe that, whatever may be the cause, the course of prices in the wholesale markets has of late years taken a decided turn. There is at least some evidence that, for fifteen or twenty years after 1845-50, prices on the average tended to rise from period to period; from about 1860 to 1873 they were comparatively stationary, oscillating between the highest maxima and minima which had come to be established; and since 1873 the tendency has been downward, the oscillations now being much the same as before 1850, if not at a lower level." Mr. Giffen supports his conclusion as to a fall of prices by a reference to the index numbers of the Economist, which have already been given at page 89, and need not be here repeated.

Evidence the index numports and Exports.

He also refers to the index numbers conof English Im- tained in the Parliamentary Reports on the prices of Imports and Exports, and shows that the prices of exports have not been so low since 1840 as they are at the present time.

Taking 65.8 as his datum for exports, he informs us that this number falls to be increased or diminished in the years since 1840 as follows:—

Year.			Increase.				Decrease.
1840			13.34				
1841		-	10.95				-
1845		·	6.05	·			
1848		•	_	:	•	•	2.43
1849					·	·	5.29
1852							6.47
1853		:		•	-		1.14
1854		·			·		0.95
1855	-			:	- :	·	2.75
1857			0.77	·			
1859			0.40	-		-	-
1865			23.46				-
1868			11.42				
1873			19.93				-
1875			8.67				
1876	٠.		2.25				-
1877							0.40
1879							6.10
1881			-				6.26
1883							5.95

Similarly, Mr. Giffen states that, as regards imports, the index number of 81·16 falls to be increased or diminished as follows:—

Year.				Increase.		Decrease
1854						0.80
1855				3.51		
1857				7.08		-
1859				-		1.39
1865				13.59		
1868				5.73		
1873				4.43		
1875				0.25		
1876						3.61
1877						1.48
1878						7.04
1879						10.30
1880						6.39
1881						6.99
1884						9.43
	:	:	·			

With reference to these tables, Mr. Giffen adds: "The evidence is thus cumulative as to what the course of prices has been since 1850, and as to the general course having been very different since 1860-73 from what it was before. Not only do the index numbers prepared by Mr. Newmarch many years ago, and without any possible foresight of existing controversies, support this view, but index numbers based entirely on the actual proportions to each other of the different articles of our foreign trade bear testimony to the same fact. It is impossible to suppose that any other index numbers which could be impartially constructed would yield any other result. Every important article of commerce is included in them, and the oscillations of prices they respectively indicate synchronise in a striking manner."

Of the causes affecting prices Mr. Giffen attaches the greater weight to the insufficiency of the gold supply.

The fall in prices is beyond question, and in all probability it is a permanent fall, and very possibly a fall of which we have as yet by no means seen the end. Mr. Giffen mentions the two causes that have been suggested—one a great multiplication of commodities and diminution of the cost of production, the other a diminished production of gold and increased demand for it. To the latter of these causes he attaches the greater weight.

Finally, Mr. Giffen remarks: "There has been no marked increase in the rates of wages since 1873, and there are now in all directions

reports of strikes and lower wages; rents are undoubtedly falling; the income tax assessments have increased more languidly since 1875 than they did for many years before; the returns of property liable to legacy and succession duty, though these are most difficult to follow owing to the naturally great fluctuations, would also appear of late years to have been stationary or declining. The very things are happening which we should have expected to happen if there had been a pressure upon gold."

Mr. Giffen looks forward to a progressive but Mr. Giffon angradual fall in prices, but he does not view this gressive and result with apprehension. Trade will be sounder gradual fall in and industry steadier under a régime of steadily falling prices, and it would be as well to let things alone. Above all he holds that the He holds bischemes of bimetallists would be wholly inapplicable as a cure for the evils to be apprehended. Assuming these schemes to be successful, "the future course of prices would be regulated by the aggregate annual production, not of the one metal, but of the two. The proportion of that annual production to the stocks of the two in use is, however, much the same as the production of the one metal to the stock of that metal only. The future course of prices will accordingly be much the same as if one metal only were used. The multiplication of commodities out of all proportion to the increased means of production of the precious

ticipates a pro-

metallism would wholly inapplicable as a cure.

metals will go on, and falling prices will inevitably result."

To those who have read Chapters V. and VI. of the present work, it will, perhaps, be unneces sary to use arguments in this place in opposition to Mr. Giffen's conclusion regarding the inapplicability of bimetallism as a panacea for existing evils. Nobody but a fanatic would hold that the adoption of bimetallism would instantly

Bimetallism would not remove all evils.

remove some,

And would alleviate others.

create wealth, remove all commercial difficulties, But it would and make everybody prosperous for all time. But if a system of currency will remove or mitigate some of the evils from which we now suffer, will obviate dangers with which we are threatened in the future, and will bring no evils of its own in its train, it is not reasonable to reject it on the ground that it will not remove every evil and smooth away all difficulties. Even if it be accepted that there will probably be a progressive fall in prices, it would be better for the world that the fall should be gradual rather than abrupt. Although the production of gold and silver bears about the same proportion respectively to the actual stocks of these metals in the present day, this has not been the case in the past, and probably will not be so in the future; two metals used at a fixed ratio must give more even prices than two metals used independently in different countries; and, so long as the metals are not linked by a fixed ratio, we have no guarantee that extraordinary demands will not

fall on one of them such as fell on gold by the And would obaction of Germany, the United States, and Italy; of future disfinally, our inability to avert the effects of a calamity is no reason why we should not mitigate them to the extent which is within our means. The equanimity with which Mr. Giffen contemplates a progressive fall in prices would not, if we are to judge from the passage quoted at page 77, have been shared by the late Mr. Newmarch. "Most emphatically the end to be feared was, not that the new supplies of gold would continue, but that by all possibility they might fall away or cease; and, in short, that the world ought to rejoice if a new gold field could be discovered every few years."

viate the risk

Large supplies of gold are required every year to meet the increasing volume of commerce, while the actual yield of the mines has fallen away, and the stock of gold in the world has been subjected to extraordinary demands, and vet we are told that it would be futile to take such steps as are within our power to remove from gold the further and increasing burden imposed upon it by the partial demonetisation of silver, and to obviate the risks to which we are exposed in the future.

CHAPTER XIX.

ANTICIPATIONS THE ENGLISH **ECONOMISTS** THE EFFECTS OF THE FALL IN REGARDING THE VALUE OF SILVER AS COMPARED WITH GOLD.

It has already been shown that since the partial demonetisation of silver in Europe gold prices have fallen steadily and largely, and that this fall is attributed by one school to appreciation of gold due to the larger demands made upon it, and by the other to the increased production (using the words in their widest sense) of commodities.

Any examination of the silver question would be incomplete which left out of sight the effects produced in those countries which retained the silver standard. The chief of those countries is India, and to it I propose to confine my remarks.

An ticipations of the English Economists regarding the fall in the resilver.

When silver first fell largely in value as compared with gold many English economists, effects of the and among them the late Mr. Walter Bagehot, lative value of declared that the fall in silver was only a momentary accident in a weak market, and not the permanent effect of lasting causes; that

exports from the silver-using countries would be stimulated, and imports reduced; that the surplus silver would in this way be absorbed. and even that the old ratio between silver and gold might be restored, or, at any rate, that a new and stable ratio between gold and silver would be established. In forming this judgment, the nature of the connection hitherto maintained between gold and silver by the bimetallic system of France appears to have been overlooked, and the forecast could only be justified on the assumption that it was silver that had fallen in value, and not gold that had risen. If gold had risen in value owing to insufficiency of supply compared with the work which it had to do, the gold prices of commodities would fall in the gold-using countries in the same proportion in which silver had fallen relatively to gold, and there would be no stimulus to exports from the silver-using countries, nor check on imports.

So long, however, as gold prices remained the same, the fall in the relative value of silver would, no doubt, tend to stimulate exports from the silver-using countries; and the stimulus would continue to have effect until prices in the silver-using countries had risen by the same proportion in which the value of silver had fallen. The fall in silver would also tend to check imports of merchandise into the silver-using countries, and would, other things being equal,

tend to increase the import of silver into those countries.

These anticipations not justisults.

Whether the anticipations that the old ratio fied by the re- between gold and silver might be restored were in themselves reasonable or not, they certainly have not been justified by the result, and we seem to be as far from the establishment of a stable ratio between gold and silver as we were ten years ago. Moreover, an examination of the economic position of India at the time when the fall in silver began to occur, and of the facts of subsequent years, will show that influences were at work which counteracted the action of the causes with which the English economists dealt from a purely à priori standpoint, and on what appears to me to have been an inadequate appreciation of the facts.

What might have been exing to the bimetallic theory.

Before considering what the actual facts pected accord have been since the fixed ratio between silver and gold was destroyed, it will be convenient to consider what, in accordance with the bimetallic theory, they might have been expected to be.

> If the bimetallic system had not been abandoned gold and silver would have continued to divide between them the duty of money in such manner as to preserve the ratio of value at 1 to 15\frac{1}{2}.

> The bimetallic system was, however, abandoned; gold was called on to do more work and silver less work.

As compared with the state of affairs under Every contracthe previously existing bimetallic system, every limitation to the extent to which silver discharged the duties of money was necessarily attended by an exactly equal extension of the panied by an duties which gold was called on to perform: for extension of instance, as Germany demonetised and sold the silver of her currency, she was forced to replace it by gold.

tion of the extent to which silver performs the duty of money necessarily accomexactly equal the duty performed by gold

Besides this permanent alteration in the rela- Special stimutive extent to which gold and silver discharged from silver the duties of money, there would, in the first instance, be a certain amount of demonetised silver thrown on the market, which would lower the price of silver, and stimulate exports from the silver-using countries until the surplus metal had been absorbed by those countries.

lus to exports countries.

When this special supply had been absorbed, the special stimulus to exports would cease, and silver would exchange for gold at rates which would vary from time to time, according to the state of the market, but, on the whole, at rates lower than the old legal ratio.

As an illustration of this portion of the question, let us assume that there are two nations subject to the conditions assumed to exist in Chapter IV. A population of 1,000,000 has a currency composed of 10,000,000 coins of A metal, and another population of equal numbers has a currency composed of 100,000,000 coins of B metal. The ratio of exchange is 1 to 10.

Illustration of the effects of changing the material of the currency.

Let us suppose that ioth of the people using the R metal decide to abandon its use and to substitute A metal. In order to do so, they will find it necessary to export to the nation using the A metal a sufficient quantity of commodities to induce it to part with the required amount of A coins, and their next step will be to replace this wealth as far as possible by purchasing from the persons who continue to use the B metal as many commodities as can be obtained in exchange for the demonetised B metal. When the necessary exchanges have been completed, there will be a population of 1,100,000 using Ametal and having a currency of 911 coins per head, and a population of 900,000 using B metal and having 1111 coins per head. Exports of commodities to the nation which originally used metal A will have been specially stimulated in the process to the amount of the value of 1,000,000 of A coins. Property of this value will have been gained by that nation at the expense of the nation which formerly used the B metal, and the price it has paid for this gain is a lowering of prices in the proportion of 10 to 911, while the corresponding gain of the persons still using the B metal has been a raising of prices in the proportion of 100 to 1111.

The new ratio of exchange between the two metals which will ultimately be established will be as $9\frac{1}{11}$ to $111\frac{1}{6}$, or as 1 to 12; instead of as 1 to 10.

It is obvious, then, that the result of altering summary of the proportion of the duty of money discharged by gold and silver is-

the results of changing the material of the currency.

- (1) A transfer of wealth from one nation to another, this being that temporary stimulus to exports of which we have heard so much.
- (2) The permanent raising of prices in the country which has lost the wealth.
- (3) The permanent lowering of prices in the country which gained the wealth.
- (4) A permanent alteration of the rate of exchange between the two countries.

The problem with which we have to deal is The not, however, so simple as the hypothetical case above stated, because the nations that were for- considerations. merly bimetallic did not, when they stopped the free coinage of silver, demonetise and sell their silver coin, and because the United States of America, though possessing a gold standard. have continued, under a special law, to absorb a large amount of silver every year. The special stimulus to exports from the silver countries has been limited to the effect produced by the demonetised silver of Germany, but there is still a stimulus of moderate amount, the intensity of which depends upon the reduced demand for silver in Europe, plus the increased production and minus the relief given by the Bland Bill.

Briefly, then, the effects which might have

present case complicated by special

been anticipated, in accordance with the bimetallic theory, were a tendency in gold prices to fall and in silver prices to rise—a stimulus of no great amount to exports from silver countries which would last while Germany was selling her silver, and a subsequent slight but long-continued stimulus due to the larger supplies of, and reduced demand for, silver. There never was the least likelihood that the old ratio of 1 to $15\frac{1}{2}$ would be restored unless as the result of legislation, and a stable ratio could not be attained in the future unless by international agreement. It will also be evident that the future must be darkened and the course of commerce disturbed by the large supplies of silver valued above its market price held by countries that had formerly been bimetallic, and by the essentially provisional nature of the arrangements made by the Bland Bills.

CHAPTER XX.

ABSORPTION OF SILVER BY INDIA.

It has frequently been assumed, in dealing with the question of the effects of the demonetisation of silver in Europe, that the East, and especially India, possesses an unlimited and unaccountable power of absorbing silver. So long as the Indian Mints are the only ones that are open for the coinage of silver, all supplies of that metal that are not wanted for other purposes will, of course, be brought to them to be coined, but it seems to me that there has been much misconception regarding the power of India and the East to absorb silver without the exchange value of silver relatively to gold being greatly reduced, and it is desirable to examine this aspect of the question before proceeding further.

For facility of reference, I give here the figures of the imports into, and exports from, India, and also the net imports of gold and silver since 1835-36. I have also added the amounts paid in India every year since 1854-55 by the Indian Government in discharge of bills drawn in London:—

[Millions of Rupees.]

		MERCH	ANDISE.	1	NET IMPOR	TS.
Official Year.		Imports.	Exporta.	Silver.	Gold.	Amount of bills paid in India.
1835-36		48	111	16	3	
1836-37		55	132	13	4	1
1837-38		50	112	20	4	1
1838-39		52	118	26	3	
1839-40		58	109	17	2	
1840-41		84	135	14	1	1
1841-42		78	138	13	2	
1842-43 .		76	136	30	2	1
1843-44		88	173	37	4	1
1844-45		108	166	20	7	1
1845-46		91	170	9	1 5	
1846-47 .		89	154	14	8	
1847-48		86	133	5	10	1
1848-49 .		83	161	3	13	1
184950 .		103	173	13	11	
1850-51		116	182	21	12	1
1851-52		122	199	29	13	
1852-53		101	205	46	12	
1853-54		111	193	23	11	1
1854 - 55		127	189	0	7	36
1855 - 56		139	230	82	25	18
1856-57		142	253	111	21	29
1857-58		153	275	122	28	13
185859		217	299	77	44	0
185960		243	280	111	43	0
186061		235	330	53	42	0
1861-62		223	363	91	52	8
1862-63		226	479	126	68	59
1863-64		271	656	128	89	94
186465		282	680	101	98	72
1865-66		296	655	187	57	64
1866-67 (11 mon	ths)	290	419	70	38	59
1867-68	,	357	509	56	46	38
1868-69		360	531	86	52	46
1869-70	***	329	525	73	56	59
1870-71		345	553	9	23	97
1871-72		321	632	65	36	100
1872-73	•	319	553	7	25	151
1873-74		338	550	25	14	143
1874-75		362	564	46	19	120
1875-76		389	581	16	15	145
1876-77	•••	374	610	72	2	125
1877-78		415	652	147	5	103
1878-79		378	609	40	- 9	175
1879-80	•••	412	672	79	18	180
188081		531	746	39	37	182
1881-82		491	820	54	48	221
1882-83	• •	521	835	75	49	184
1883-84		553	881	64	55	229
1884-85		557	832	72	47	160
	•••	001	202	12	**	100

Silver is not produced to any appreciable Ordinary reextent in India, and consequently that metal India as remust be largely imported to meet ordinary wear and tear of stock, and to provide for the very considerable additions which are made to the population every year.

gards silver.

Considering the vast population of India, and the immense stock of silver which she holds, it is probable that in the present day not less than 30 millions of rupees in silver are required yearly to maintain prices at the same level. Large as this sum may appear, it only amounts to about one rupee yearly per 10 persons of the total population supplied with silver by the Indian imports of that metal.

The imports of silver into India from 1835-36 Moderate imto 1854-55 were very moderate, only 18 millions from 1835-36 of rupees yearly, and certainly not more than enough to keep up the currency, provide for increase of population, and meet wear and tear of silver not in circulation.

ports of silver to 1854-55.

From 1855-56 to 1865-66 India imported a Large imports very large amount of silver; but imports during of silver 1855-56 this period were mainly due to borrowing to meet expenditure on account of the Mutiny, to the large payments in England by Guaranteed Companies for expenditure in India, and to the special increase in the value of exports due to the demand for cotton in consequence of the American war.

of silver from 1865-66.

Imports of silver largely due to borrowing.

The following table shows in periods of years the net imports of silver since 1855-56, the amount of such imports which was covered by borrowing in one form or another, and the average yearly import in each period, exclusive of borrowing:—

[Millions of Rupces.]

	Net imports of silver.	Amount borrowed in all forms	Difference.	Average yearly import, ex- clusive of borrowing.
1855-56 to 1865 66	 1,189	690	499	45
1866-67 to 1869 70	285	272	13	3
1870-71 to 1875-76	 168	90	78	13
1876-77 to 1878-79	259	92	167	56
1879-80 to 1884-85	382	65	317	53
Total	2,283	1,209	1,074	36

Under the head "Amount borrowed in all forms" I have shown all borrowing in London by which the amount of bills drawn on India was proportionately reduced; all payments in London by Companies for capital expenditure in India; and all silver debt of the Government of India, payment of interest on which was transferred from India to London, and which was presumably borrowed from Europe.

If the sums shown under the two former heads had not been received, the drawings on India would have been increased by an equivalent amount, and the exports of silver to India would, pro tanto, have been reduced.

Of the silver debt of India, 206 millions were

transferred to the London register for payment of interest between 1855-56 to 1884-85. I have assumed that the latter figure is the amount of the silver debt incurred during this period which was borrowed from Europe—an assumption which is probably under the mark.

It will be seen that from 1855-56 to 1865-66 India imported annually 108 millions of rupees; but that if we deduct the imports due to borrowing, India imported only 45 millions of rupees annually during this period, notwithstanding the special impulse given to imports of silver by the American war.

From 1866-67 to 1875-76 India imported very little silver indeed, except what she borrowed.

From 1876-77 to 1884-85 India has imported a considerable quantity of silver apart from the imports due to borrowing.

The conclusion to be drawn from these figures is that from 1855-56 to 1865-66 India imported silver largely owing to borrowing and from special causes; that in 1866-67 her supply of silver had in this way been raised above what may be called equilibrium; that consequently from 1866-67 to 1875-76 she would have imported very little silver but for further borrowing; that the borrowing from 1866-67 to 1875-76 served to maintain the Indian currency above equilibrium; and that India might have been expected for some time after 1875-76 to

import very little silver, unless under the influence of borrowing or other special causes.

Apart from borrowing, the imports of sil. ver have been moderate. The total amount of silver imported into India from 1855-56 to 1884-85 and paid for comes to 36 millions of rupees yearly—an amount not greatly in excess of what India requires to keep prices at the same level; and a large portion of this amount was paid for by the great increase in the value of exports during the American war.

But although India has, apart from borrowing, only imported 36 millions of rupees yearly since 1855-56, I do not assert that she would only have imported this amount if there had been no borrowing. The wants of India in the matter of silver have been largely supplied by borrowing since 1855-56; and if they had not been so supplied, she would probably have imported more than 36 millions of rupees yearly, paying for the excess either by increasing her exports, or reducing her imports, of merchandise.

The figures which I have given, however, entirely dispose of the assertions so frequently made, that India is a country which from some inexplicable cause has absorbed, and will continue indefinitely to absorb, any quantity of silver without economic disturbance.

Improbability of very large imports of silver in future unless under the stimulus of special causes. India requires, and under all ordinary circumstances would import, 30 millions of rupees yearly, and may possibly take double that amount; but beyond this figure there is little likelihood that she will go, unless there should

be large borrowing on the part of Government, or unless some abnormal cause should come into play, such as that which led to the unprecedented increase in the value of cotton exported from India during the American war. No doubt cheaper freight to Europe stimulates exports, and the extension of irrigation and construction of railways enable more produce to be brought to the ports for export; but there is a limit to the surplus produce which India can spare, and the payment of interest on money already borrowed, as well as the general increase of the home charges of the Government of India, swell the drawings of the Secretary of State, and tend to reduce the imports of silver. Moreover, the supply of silver has been forced and maintained above equilibrium in the past by borrowing; and if the stimulus of special causes were removed, India would probably prefer to take merchandise rather than silver.

It seems, therefore, to be in the highest degree improbable that, apart from borrowing and other special causes, such as a further heavy fall in exchange, India is at all likely to take more than 60 millions of rupees yearly in future.

CHAPTER XXI.

PRICES OF INDIAN EXPORTS AND IMPORTS SINCE THE FALL IN THE RELATIVE VALUE OF SILVER.

to exports and ports would attended with a rise in the silver prices of both exports and imports.

The stimulus THOSE who held that the fall in the relative check on im- value of silver would stimulate exports from the necessarily be silver-using countries, and check imports into them, based their argument on the assumption that, owing to the fall in the relative value of silver, the gold countries could afford to give more silver for commodities imported from the silver countries, and that the silver countries would be forced to give more silver for the articles produced in the gold countries, or, in other words, that the prices, measured in silver, of both exports and imports would rise.

The contention was perfectly sound on the assumption that it was silver that had fallen and not gold that had risen, and that gold prices would remain the same as before in the goldusing countries.

According to this theory, the increase in exports and decrease in imports of merchandise, and the correspondingly large imports of silver, would continue until prices had risen in the silver countries proportionately to the fall of silver as compared with gold. When equilibrium was restored in this way, the special impulse to exports and the special check on imports would cease, and exchange between the gold and silver countries would take place according to the ordinary laws.

Let us consider whether these anticipations have been justified by the facts.

If events had followed the course anticipated, Prices in silver we should find in the first instance an increase ports have not in the prices of exports, which would be permanently maintained, and would lead for a time to a large increase in the quantities exported. In connection with this matter, I would call attention to Appendix A, which shows the prices of the principal articles of export at Calcutta since 1873. It shows very little rise in any year since 1873, and a large decrease in 1885. From this table I have prepared with some difficulty the following table of index numbers for 13 of the principal articles:-

of Indian ex-

1873				1600
1874				1729
1875				1491
1876				1519
1877				1634
1878				1645
1879				1652
1880				1765
1881				1584
1882				1530
1883				1453
1884				1607
1885				1364

The numbers show a good deal of fluctuation, but on the whole the course is steadily downwards; the high index numbers in certain years being due to famine rates for rice in Calcutta and excessive fluctuations in the prices of one or two articles of no great importance.

Indication of prices afforded values and quantities of imports and exports.

A further indication of the course of prices recorded may be obtained by observing the relation between the recorded values and quantities, according to the Customs returns, of articles exported from India

> The table of export prices on p. 117 has been obtained by comparing the recorded values and quantities of articles exported.

> These figures show no general increase in the prices of exports.

> It is clear then that the anticipation of a stimulus to exports attended by a permanent rise in price has not been fulfilled.

Prices in silver of imports into India have not risen.

I need not deal specially with imports into India. If the reader will turn to page 94, he will see that for 1873 Mr. Giffen's datum for export prices of English commodities (65.8) required to be increased by 19.93, raising it to 85.73, and that for 1883 it required to be reduced by 5.95, bringing it down to 59.85; so that there was a fall between 1873 and 1883 in the gold prices of English exports from 85.73 to 59.85, or of rather more than 30 per cent. But 1873 was a year of remarkable inflation of price. If we compare 1875 with 1883, we find a fall from 74.47 to 59.85, or more than 19 per cent. Between 1875 and 1883, therefore, the gold prices of exports from England (and consequently

PRICES OF EXPURTS.

					1873-74.					-	t t		!		-	
					Rs.	Re.	Rs	R&	Rs.	Rs.	Rs.	Rs	Rs.	Bs.	B.	Ba
Rice	:	:		per cwt.	2.7	8.7	5.6	6.6	æ	4.	3.8	3.4	5.6	2 7	3.1	83
Wheat	:	:	:		4.2	9.#	3 6	3.5	4.5	4.9	5 1	†. †	4·3	£.3	2.4	4.0
Tes .		:	:	10 lbs.	9 8	6.	6.8	† .6	9.1	9.1	0.8	9.9	7.	†.9	8.9	6.3
5	:	:	:	cwt.	33 2	27.5	6.97	25.8	£-92	26.7	28.5	29-1	26.9	26.0	24.1	26.5
Raw hides	:	:	:		:	:	31 4	31.2	28.7	0.97	27.8	31.5	32.0	37.8	34.0	34.4
Raw jute	:	:	:	:	6-2	6.0	7.0	8.0	6.9	63	6 5	8.9	2.9	9.0	6.9	9.9
Linseed	:	:	:		20	2.0	5 3	7. C	5.9	6.5	6.9	6 2	5 8	5.5	7.9	9.0
Варе.		:	:	: :	4.5	4 5	8.7	5 5	0.9	6.3	6.5	7.0	5.3	9.0	6.2	6.
		:	:	:	0 9	0 9	\tilde{p} .	9 9	 	2:2	67	6.9	6.9	6.3	6.9	7.3
Wool	:	:	:	100 lbs.	38 7	45.1	0.9+	44 8	6.0	39.8	41.5	44.8	37.1	36.7	37.7	37.7
Cotton twist and varn	t and	Varn	:	•	52.8	52.1	4.7.9	46.3	13.1	416	47.9	1.14	44.5	40.0	9.88	37 0
Cotton niece goods, grey	000	ds. orev		100 vds.		:	15.7	15.5	14.1	13-2	12 5	12-7	12.2	9.11	11.2	10.9

of imports into India) fell by an amount almost exactly equivalent to the total fall in the value of silver as compared with gold. Since 1883 the prices of English exports have fallen still further, and we arrive at the remarkable fact that, apart from the temporary inflation of 1873, the gold prices of English exports, and therefore of Indian imports, have fallen more than silver has fallen in relation to gold; that the silver prices of Indian imports are now lower, and not higher; and that the check on imports into India, which was expected to be caused by the rise in silver prices of imports, has had no existence in reality.

The same conclusion follows from an examination of the prices of the chief articles of import as determined from the values and quantities of imports recorded in the customs returns.

The table on p. 119 shows clearly that there has been no such rise in the silver price of imports as we should have expected if silver had fallen in value in relation to commodities.

PRICES OF IMPORTS.

		Average of 5 years during 1873-74.	1874-75	1875-76.	1876-77	NT-1781	1878-79	1874-75 1875-76, 1876-77 1877-79 1879-80, 1890-81 1891-82, 1862-83 1889-84, 1884-85.	1880-81	1881-82.	1862-83	1883-84.	1881-85.
		-	, a	0	Pe	2	Rg	, a	8		R.	Rs.	R8.
	Por ton	ns 16-4	18:9	17.2	8.71	16.7	9.81	19.2	17.8	15.9	15.7	16.5	16.9
Cotton twist and varn	100 lbs.	20.4	85.1	9.18	82.2	8.8.	83.0	82.7	9.08	9.62	75.3	76.4	75.0
	100 yds.	12.7	13.1	12.4	12.0	11.7	11.2	11.4	11.6	8.11	11.7	11.1	10.8
red	• :	15.7	16.2	18.3	8.11	16.3	16.1	15.8	16.2	15.6	15.6	15.5	15.0
Thwronght copper	cwt.	42.8	40.1	52.1	54.5	6.14	44.3	42.5	45.2	42.5	45.0	42.1	37.3
Wronght iron har		:		7.	6.3	5.5	1.0	j.4	2.5	5.3	5.9	5.5	4.9
Transport tin	• ;	44 9	45.0	1 64	49.0	15.7	43.4	48 2	57 3	67 8	8.49	60.3	6.49
:	100 lbs.		:	6.5	0.8	6.2	8.6	0.6	8.3	-8 -8	9 1	11.2	10.9
	:	:		20.9	20.1	18.8	17.0	17.7	19.1	21.3	23.9	28.5	32.9
refin	cwt.	12.6	13 0	14 6	15.7	16.8	16.1	164	16.4	16.1	16.5	15.7	13.3
. :	Set of 10	9.2	7.9	8 0	9.1	1-	7.	-1.	4.1	Ξ	6.9	Ξ	7.7
	lb.	1 -	3.5	5.8	31	3.5	3.1	3.4	4.5	4.3	¢.\$	4.4	4.1
spood-a	100 yds.	109.3	0.001	8.1.3	8.011	100-2	1119	100-2 1111 9 102-5 101-1 103-0	101.1	103.0	104.5	108.1	109-6
					-								

CHAPTER XXII.

PRICES IN THE INTERIOR OF INDIA.

THE prices with which we have dealt in the preceding chapter have been prices at the coast. It will not be uninteresting to consider, so far as the means at our disposal permit, what has been the course of prices in the interior of the country. The case of imports need not be specially considered. Imports are cheaper at the coast than they formerly were; and as the cost of carriage into the interior of the country has been growing less year by year, we may feel sure that imports are cheaper in the interior than they have been at any former period.

The general question of the rise or fall of prices in the interior of India is one of much difficulty. Prices vary so much from time to time, and from place to place, in a country so vast, and which has long suffered from defective means of communication and defective rainfall inducing local famine, that, unless there had been a marked fall or rise, it would be hopeless to attempt to discover the working of a general law among so many discordant elements.

The course of the prices of exports at the

coast, would not justify the opinion that there has been any considerable rise of prices in the interior of India, though doubtless the improvement in means of communication, and especially the construction of railways, would tend to raise the average of prices by raising prices in those tracts in which they had hitherto been kept at a low figure by the impossibility of finding a market for surplus produce. The question of the rise or fall in prices of the principal articles of food has recently been investigated by Mr. J. E. O'Conor of the Financial Department of the Government of India, and the following figures at which he has arrived after careful inquiry possess a special interest at the present time. I have thought it sufficient to give the prices for five of the principal food-grains, the course of prices of other food-grains being the same.

Seers per one rupee.*

	North- Western Provinces and Oudh,	Punjab,	Central Provinces,	Hyderabad Territory,	Bombay,
Wheat.	11 districts	districts.	3 districts.	a districts.	8 districts.
Average of 1861-67) (7 years)	21-17	21.99	27.3	12.45	11.95
Average of 1868-74 / (7 years)	17.57	17-29	23.52	12.41	12.33
Average of 1875-81 (7 years)	18.65	18-19	24.81	13.14	11.71
Average of 1882-84 (3 years)	18-82	22.22	23.34	17.61	14.31

^{*} Prices are here shown according to the Indian system. The English reader should recollect that the larger the quantity of grain that can be purchased for a rupee the lower is the price of that grain. A seer is 2½ lbs.

Seers per one rupee.

Rice. Average of 1861-67 (7 years). 22-41			7 districts.

A \$ 1001 07 /7 00.43		1	
Average of 1861-67 (7 years) 22.41	$12 \cdot 25$	21.1	17.09
1868-74 (,,) 21.41	14-93	19.07	18.35
., 1875-81 (,,) 18-71	12.35	19.96	15.07
, 1882-84 (3 years) . 19.92	15.61	21.88	15.22

Seers per rupee.

	Bombay,	Central Provinces,	Punjab,	North- Western Provinces,	Madras,
Jowar.*	9 districts	2 districts	2 districts	11 districts	5 districts.
Average of 1861 6 (7 years)	7 (17:37	22:36	28 54	25.18	20.03
Avorage of 1868 7- (7 years)	4 18.86	21.74	23.01	21.57	26.15
Average of 1875 8 (7 years) .	1 7 33	21.98	23.68	24.92	19.9
Average of 1882 8 (3 years)	4 / 20-21	27-99	33.46	27 92	29.8

Seers per rupec.

Barley.	Oudh, 3 districts	North-West Provinces, Edistricts	Punjab, 6 districts.
Average of 1861-67 (7 years) , 1868-74 (,,) , 1875 81 (,,) , 1882-84 (3 years)	31·36	29:48	38.08
	23·53	25:18	27.36
	27·78	26:46	27.36
	28·15	27:19	35.24

Seers per rupee.

	Bombay,	Madras,	North- West Provinces and Oudh,	Punjab,
- ·	9 districts.	5 districts	11 districts	6 districts.
Bajra.*			,	
Average of 1861-67 (7 years)	15.57	20.85	23.22	25.98
" 1868 - 74 (")	17.32	25.19	19.39	20.53
,, 1875-81 (,,)	16.	20 45	22.01	21.16
, 1882-84 (3 years)	18.39	29.95	24.9	27.78
			1	

* A species of millet.

Mr. O'Conor's figures show very clearly that there has been no general rise of the price of food-grains in India. The harvests of 1882-83-84 have been better than the average, and the cheapening of grain from this cause has more than counteracted the effects of the opening up of districts which formerly could not send their surplus produce to the coast for export.

I have also examined tables showing for Prices and several Provinces the cost of work done in suc- wages in the Irrigation cessive years by the Irrigation Department. The Irrigation Department was chosen, because Department. its work is generally carried on at a distance from the great centres of population, and its rates are not affected by so many special disturbing causes as in the case of other branches of the Indian Public Works Department. I found the general course of prices to be the same in all Provinces, and it is unnecessary, therefore, to print the tables for more than one Provincethe Punjab.

The figures given on p. 124 are the average rates for the province; and as work is not being carried on every year in the same places, the average does not, in all cases, fairly represent the whole province; but, the figures show very fairly what the general course of wages has been, and they are conclusive as regards a large and steady wages of rise in the wages of skilled labour, such as that of skilled labour largely masons, bricklayers, carpenters, and blacksmiths risen.

Branch of the Public Works

-a result which might have been anticipated

THE PUNJAR.

Cost.		-	1562	1863	<u>35</u>	185		150	2	1869	1870.	1871.	1872
Earthwork per 1,000 cubic feet	:	:	Ans 42	Ans 32	Ans 33	Ans 41	Ang.	Ans 48	Ans 56	Ans.	Ans. 50	Ans.	Ans.
Masonry per 100 cubic feet		:	236	230	259	287	232	316	596	5:29	599	298	355
Woodwork per cubic foot			24	55	54	7,	35	2	#	5	41	:	70
Country ironwork per maund			176	176	208	253	276	288	308	30+	315	293	349
Bricks per 1,000			154	112	160	150	120	160	160	187	193	192	971
Lime per 100 cubic feet		:	237	589	245	37.7	336	360	764	240	288	277	362

THE PUNJAR (rontinued).

Coet.	1873.	1874.	1875.	1876.	1977	1878	1579.	989	1881.	1862	1883.	188 1.
Earthwork per 1,000 cubic feet Masonry per 100 cubic feet Woodwork per cubic foot Country ironwork per maund Bricks per 1,000	Ans. 272 204 344	Ans. 48 322 41 305 192 384	Ans. 37 320 35 261 192 400	Ans. 322 330 5 192 400	Ans. 40 312 58 263 192 400	Ans 51 348 45 210 192 372	Ans. 54 320 34 296 192 365	Ans. 54 343 36 320 160 391	Ans. 58 344 36 334 160 348	Ans. 49 376 39 292 160 352	Ans 522 343 24 277 277 352	Ans. 39 323 23 280 168 360

from the construction of railways, canals, and other great public works.

On the other hand, the rates for earthwork Wages of unshow that, away from the great centres of trade have not risen and industry, there has been no very marked proportion. improvement in the wages of unskilled laboura result probably due, in some degree, to increase of population in a country remarkably deficient in manufacturing industry.

As a further test in dealing with the question of a rise in wages, I have obtained statements showing, since 1855, the rates of pay of postmen and runners employed by the Post Office, which are given in Appendix B.

The rates of pay of postmen have, it will be Wages of postseen, increased very largely; but this increase is men have largely risen. chiefly due to a change in the nature of their work, which has become of a more responsible nature, and requires greater intelligence for its performance.

In 1855 the postmen were only required to deliver letters, and many of them could not read even the vernacular language. They now pay money orders, and those drawing the higher rates of pay are expected to be able to read English as well as the vernacular language.

The statement of the pay given to postmen in successive years affords, however, a good illustration of the manner in which a demand for a higher kind of labour is gradually growing up in India as its organisation becomes more complex.

Moderate increase in wages of postal runners. The statement showing the pay of postal runners is of special value. The runners are the men who carry the mail from stage to stage where no other means of conveyance is available. Their pay represents the wages of the lowest class of unskilled labour, and the rates given are the lowest market rates for which their services could be obtained. The average rates of pay in different years have been as follows:—

			Mon	thly wages Rs.	•
1855				4.05	
1860				4:56	
1865				4.95	
1870				5.20	
1875				5.14	
1880				5.24	
1885				5.35	

These figures show conclusively that the market rates for unskilled labour away from the great centres have not increased in any considerable degree since 1870. It will be observed that the figures of the Postal Department fully corroborate those of the Public Works Department, so far as they go; there is an increased demand for, and higher wages are given to, skilled and intelligent workmen; but there has not been the same improvement in the position of ordinary labourers, taking them as a class and not confining our attention to the great cities, where the wages of unskilled labour have certainly increased in a material degree.

Summary.

We thus see that the prices of exports at the coast have not increased, that the prices of food-

grains in the interior are not higher than they were, though this may be, in some measure, due to the good harvests of recent years, and that, away from the great centres, the wages of unskilled labour have risen very little. On the other hand, there has been a large rise in the wages of skilled labour; the number of skilled labourers is, unfortunately, inconsiderable as compared with the number of unskilled labourers, and on the whole the rise in wages has been very moderate.

The final conclusion can only be that the fall in the value of silver as compared with gold has, up to the present date, not had any considerable effect in raising prices or wages in India; though there can be no doubt as to its influence in preventing a fall.

CHAPTER XXIII.

INCREASE OF INDIAN EXPORTS AND IMPORTS SINCE
THE FALL IN THE VALUE OF SILVER RELATIVELY
TO GOLD.

Ir has been shown in Chapter XXII. that there has not, to say the least, been any rise in the silver prices of exports from India, nor in the silver prices of imports into India.

There has not, therefore, been any special stimulus to exports or check on imports due to a rise in silver prices. Silver prices of exports at the coast have remained nearly the same, with however a tendency to fall in very recent years.

The change which has actually taken place has been a fall in gold prices, both of exports and imports.

We will now proceed to consider what the actual course of the import and export trade of India has been since the fall in the rate of exchange; and to do so with advantage it will be necessary to consider the course of trade for some years previous to the date on which this fall began to declare itself.

The figures of the import and export trade have been already given at page 108, and need not be repeated.

Examining these figures, we find that from General course 1855-56 to 1861-62 there was a large, and, on foreign trade. the whole, steady growth of exports.

During the same period imports also increased, mainly owing to increased imports of cotton goods from England.

increased by little more than 50 per cent.

The American war gave an enormous stimu- Increase lus to the Indian cotton trade from 1862-63 to ports of cotton 1865-66, and prices rose so high that the value American war. of the raw cotton exported in 1864-65 was nearly seven times the value of the cotton exports of 1859-60, although the quantity was

value of exowing

During the same period the imports of mer- Payments for chandise showed a steady and considerable largely taken increase, but the increase did not at all approach in gold and silver. the value of the increase in exports. During the four years 1862-63 to 1865-66 India imported no less than 542 million rupees in silver and 312 million rupees worth of gold, while only taking merchandise in excess of the figure of the years immediately preceding to the amount of 157 million rupees in the four years. Moreover, nearly one-half of the increase in the value of merchandise imported was due to the higher price which India had to pay for manufactured cotton goods, of which the quantity imported

The result is perhaps not other than might have been expected, seeing that a sudden influx of wealth among the Indian peasantry could

actually fell off.

hardly lead at once to a greatly increased demand for foreign luxuries of which they had little or no knowledge. Gold and silver appeal to all men's feelings, and in gold and silver the Indian people preferred to receive the value of their cotton.

Moderate increase of ex-1866-67 1874-75.

From 1866-67 to 1874-75 there was a ports from steady, but not very great, growth of the export trade. The quantity of raw cotton exported every year from 1866-67 to 1874-75 remained nearly constant, but its value declined largely. On the other hand, both the value and quantity of the indigo, rice, jute, seeds, and tea trade increased steadily. The famine of 1874 affected both the rice and indigo trades very injuriously, and the total exports of the year would have been low but for a large export of cotton.

No increase of imports of merchandise during this time.

The total value of the exports of 1874-75 exceeded that of 1867-68 by only 55 millions of rupees, and as the Secretary of State had been increasing his drawings there could not be any considerable increase in imports of merchandise. In fact, the value of the imports of merchandise in 1874-75 only exceeded that of 1867-68 by 5 millions of rupees, while the imports of silver fell off by 10 millions of rupees.

Moderate increase of exports from 1874-75 1878-79.

c

From 1874-75 to 1878-79 there was no very great increase of exports, the figures for these years being 564, 581, 610, 652, and 609 millions of rupees. During this period the im-

ports of merchandise were almost stationary. but the imports of silver were very large in the vears 1876-77 and 1877-78, and the imports of gold were triffing during the whole period. We see, then, that from 1874-75 to 1878-79 there was no remarkable stimulus of exports, and consequently there could be no large increase of total imports, including silver and gold. These vears were affected by the great Madras famine. and the combined effect of the famine and the rise in the price of gold was largely to reduce the imports of gold.

After 1878-79 there was a large increase in Large increase the export trade, and the exports of 1884-85 after 1878-79. exceeded those of 1874-75 by 268 millions of rupees. The following tables show the quantities and values of the articles to which this great increase is due. I have included cotton in the table on page 132, for, though its value in 1884-85 is less than in 1874-75, it is very much greater than it was in 1878-79.

When the exports began to increase after Large increase 1878-79, the imports of all kinds also increased, merchandise for although the Secretary of State largely increased his drawings the increase was far less than the increase in exports.

of imports of after 1878-79.

The imports of 1884-85 exceeded those of 1874-75 by 195 millions of rupees.

The tables on page 133 show the quantities and value of the chief articles of which the import has largely increased.

					WALANTILLES.	.00						
	Average of 5 years ending 1873-74	1874-75.	1875-76.	1876-77.	1876-77. 1877-78	1878-79.	1879-90.	1860-61	1861-82	1842-43.	1889-84.	1884-86.
Raw cotton cwt. Cotton twist lb. Cotton piece goods yds. Indigo cwt. Rice cwt.	5,230,475 2,461,774 59,837,728 109,595 17,168,818	5,600,086 3,615,945 68,981,199 81,466 16,940,642	5,010,785 7,021,179 66,084,708 110,392 20,090,397	4,557,914 8,766,249 71,885,356 100,384 19,548,741	3,560,568 16,534,728 73,476,541 120,605 18,211,627	2,966,569 22,087,156 81,062,102 105,051	3.948.47 26.704.71 100.93 21.908.58	27.527.186 88,510,099 116,870 26,769,3551	4.511,548 5,629,544 (3.27,138 31.533,733 44 (3.25,138 31.533,733 44 (3.25,231) (3.25,231	2.171.060 2.10.095 2.10.095 1.10.095	5.967.278 51.221.002 29.955,190 168,590 26,831.715	5,089 9,855 9,855 15,10 1,10 1,10 1,10 1,10 1,10 1,10 1
skine	622,139 5,291,588	בא אייי	5.206,570	654.321 4.533.255	5,450,276	6.021,382	958,72 968,72 6,680,67	812,590 812,590 5,809,815	815,490 7,510,214	866,450 0.348,909	833	1,010,869 8,368,686
her of gunny bags) Beeds cwt. Sigar life. Tes. lbs.	6,127,361 4,692,367 (a)390,418 16,057,546	8,010,824 6,074,756 559,267 21,392,760	19,263,51, 10,507,40 507,40 24,561,83	32,859,545 9,583,170 1,144,491 27,925,800	32,859,545, 26,409,689, 4 9,583,170,12,187,619 1,144,491, 908,250 6,27,925,800,33,656,961,3	5,354,044 7,211,790 368,546 4,800,027	55.908,731 7.246,182 373,242 38,404,632	52,386,227 10,303,776 644,531 46,918,530	52,386,227, 12,072,819, 6 10,303,776, 10,482,519, 1 614,531, 988,341 46,918,539, 49,235,342, 5	19 (00,737,651 63,645,984 88 12 13,147,982 17,357,884 18 11 1,428,360 1,777,157 12 58,233,345 60,473,113 68	63,645,984 17,357,884 1,777,157 60,473,113	82,779,807 18,259,931 1,251,069 65,147,897

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AI UF.	1878.78
`	Pars 1974-75
	Average of 5 years

	Average of 5 years ending 1873-74.	1874-75	1875-76	1875-76 1876-77	1877-78	1878-79.	1879-80	1890-81	1881-82.	1882-83.	1883-81.	1884-85.
Raw cotton	174.1	152 6	132 8	117.5	833	79.1	111.5	132 +	149 4	160 6	1410	1330
Cotton twist	7*	2.0	30	£ 3	+ 1-	† 6	116	133	14.5	187	3	25.1
piece goods	120	140	13 4	143	111	152	11 8	166	18-0	008	27 27	0 0 8
Indigo	34.1	25.8	90 Fi	23.6	34.9	983	Si	18	45.1	30.1	46 4	40 7
Rice	456	467	52 4	57.4	6 %	21 88 88	æ	200	85.5	7.78	88	2
Wheat	23	6 7	91	196	33	52	11 2	8 88	88	6.09	8	8
Hides and skins	23.6	268	7 63	300	37.6	310	37.4	37.4	39.5	7 17	19	† 6 †
Raw jute	326	32 5	28	264	32.5	380	43 7	303	503	58.5	45-9	9.94
Manufactured jute (gunny bags)	15	23	77	65	73	10 1	113	108	10.8	14.3	12.6	77
	24.9	32 4	27.0	53.2	736	468	47.8	8	9 09	77	100-9	107.5
Sugar	36	3.9	က	100	00	9	63	51	7	66	118	4.0
Tes	1#1	196	218	26.2	306	31 7	30.1	310	38.6	37 4	113	1 1
Total .	3713	363 9	382 7	396 5	9.71	389 9	437.5	2.609	6018	6779	0.999	6223

(a) Figures defective, quantity for a value of Rs. 2.650,000 not being available.

Not.—In the case of cotton twist, cotton piece goods, and hides and skins, the values for the five years ending 1873-74 are based on tariff valuations, which were almost always below the real value.

	Average of 5 years ending 1873-74.	1874-75.	18.5-76.	1876-77.	1877-78.	1878-70.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.
- 00	ons. 322,617 lbs. 32,467,731 yds. 976,679,840	37,097,260 1.039,036,365	31,927,340 994 813,7581	540,332 33,270,208 187,032,7251	600,833 36,196,661 1,359 089,444 1	33,145,651 (127,875,5501	608.760 33.212.952 333.797.5491	729,058' 45,877,379 774,336,2901	648,201 40,763,209 623,333,9761	652,347 44,859,383 641,074,7631	712,900 45,379,516 722,378,54e	757,673 44.801,397 732.233,839
	cwt. 1,356,309 gals. 4,036,113 yds. 4,036,113 cwt. 470,679	9 1,886,826 3 6.970,667 9 305,715	2,543,615 751,440 7,770,283 613,151	2,031,321 622,890 5,082,488 258,105	3,390,767 2,825,358 7,097,739 475,105	3.021.436 4.337.217 7.330 801 923,381	2,860,001 8,268,401 7,467,815 652,009	3.414.481 10.286.671 11.628.163 986,321	3 261.775 10,234.041 10,737.731	4.324.540 21.867,521 8.518.119 672,672	4,853,410 14,481,635 9,627,673 736,909	4,855,700 27,786,063 10,221,778 1,616,874
1	yds. 5,453,277	7 5,043,281	7,859,951	7,164,994	7.881.787	8,041,570	8.188.621	12,250,488	9,799,843	7,455,948	10,267,363	11,316,862
				VALUES.		Millions of supees.	pees.					
	Average of 5 years ending 1873-74.	ls:1-15.	1875-76.	1876-77	1877-78	1878-79.	1879-80	1880-81.	1881-82.	1882-83.	1893-84.	1884-85.
Coal Cotton twist Cotton prece-goods Machinery Mandactured metals Oils piece goods Railway material Sugar Woollen piece-goods	27.75 147.75 1147.75 118 24.1 24.1 3. 60 8 60	1818 6818 6818 6919 6919 6919 6919	860 88 4 1 1 1 8 8 9 8 8 9 9 9 9 9 9 9 9 9 9 9 9	37.00 37.00		0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03	128020-208 128020-208	23.20 23.00 20.00	2013 2013 2013 2013 2014 2014 2014 2014	2033 2033 1339 1039 86	211.7 211.8 21.14.7 23.7 65.5 10.4 11.5 11.5	22.53 11.23 12.33 12.33 13.34 14.33 16.33

Note.—The values for the five years ending 1873-74, as recorded in the trade returns, for cotton twist, cotton piece-goods, metals, oils, and sugar, are based on tariff valuations. Speaking generally, the real values were almost always in excess of the tariff valuations.

	Average of 5 years ending 1873-74.	1874-75.	1875-76.	1876-77. 1877-78	1877-78	1878-79.	1879-80.	1880-61	1881-82	1882-83,	1883-84,	1884-86.
otton cwt. Iwist lb. plece goods yds ewt. and skins setured jute (num- figunny bags)	5,250,475 2,461,773 2,461,773 108,585 17,168,818 622,759 6,127,361 4,692,367	5,600,086 3,615,945 68,981,199 81,466 16,940,642 1,073,655 5,433,957 6,074,756	5,010,785 7,021,178 66,081,778 110,392 20,090,397 2,510,801 68,715 5,206,570 19,283,513 10,507,404	4,557,914 8,766,219 71,885,336 100,384 19,548,741 5,586,804 654,321 4,533,255 4,533,255 9,583,545	3,560,568 16,531,728 130,665 18,211,627 6,373,168 905,972 5,450,276 28,406,689	2,966,568 21,067,136 31,067,136 105,061 1,056,730 89,332 6,021,382 6,021,383	3948.476 20,704.713 81,251.1137 100,835 2,201.515 958.723 6,680,670 55,908,731	4.541.548 88.510.099 88.510.099 116.870 7.841.355 7.841.375 5.809.815 6.809.815	5,629,544 31,533,733 96,126,921 150,369 12,911,437 12,911,406 12,072,819 14,072,819	4 (6.171,006 3.46.240,953 4.111,711,73 19.1029,721 19.1029,721 10.346,909 1 10,346,909 1 10,346,909	5.5.967,278 13,220,002 113,265,190 113,65,190 112,100,112 12,100,112 13,100,112 14,100,112 15,100,112 16,100,103 16,100,1	5,008,713 66,865,002 106,865,002 21,702,430 15,850,881 1,010,889 8,368,686
Sugar Tea lbs	(a) 390,418 16,057,546	559,267 21,392.760	507,403 24,561,826	1,144,491 27,925,800 7ALUF.	673	368.546 34,800,027	373,242	644,531 46,918,539	221	1 1,428,360 58,233,345	5 60,473,113	65.147,897
	Av en	Average of 5 years ending 1873-74.	Pars 1874-75	5 1875-76	1876-77	1877-78	1878-79, 1879-40	-	0-81 188	1880-81 1881-82, 1862-88.	88. 1889-84.	1. 1884-85.
Raw cotton Cotton twist piece goods Indigo Rice Wheat		17 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	82 82 82 82 82 83 83 84 84 84 84 84 84 84 84 84 84 84 84 84	11.5 11.5 11.5 10.0 10.0 10.0 10.0 10.0	883273	6000880 140000	5508542 508542	[8885E8 010598
Luces atta skins Raw Jute Manufactured jute (gunny bags) Seeds Sugar	· bags)	22 1 22 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	200 200 200 200 200 200 200 200 200 200]	828°54°				4888-0	39 5 44 4 50 3 58 5 10 8 14 3 60 6 72 1 30 6 37 4	44-1354-145-145-145-145-145-145-145-145-145-1	

(a) Figures defective, quantity for a value of Ra. 2,650,000 not being available Not.—In the case of cotton twist, cotton piece goods, and hides and skins, the values for the five years ending 1873-74 are based on tariff valuations, which were almost always below the real value.

681.9

8018

2.609

437.5

112.6

3965

387 7

363 9

3713

Total :

1884-85.	757,673 44.801,397 1.732,233,839	4,855,700 27,786,053 10,221,778 1,616,874	11,316,862		1894-85.	20332 2032 2032 2032 2032 2032 2032 203
1883-84.	712,900 45,379,516 722,378,548	4,853,410 14,481,635 9,627,673 736,909	10,267,363		1893-84.	2112 2113 2114 2115 2115 2115 2115
1882-83.	652,347 44,859,383 641,074,7631	4.324.540 21,867,521 8.518,119 672,672	7,455,948		1882-83.	10.200 13.300 13.300 10
1881–82.	648,201 40,763,209 623,333,9761	3.261.775 10.234.041 10.737.731 775,982	9,799,843		1881-62.	2043 2043 356 1124 1024
1880-81.	729,058, 45,877,379 774,336,2001	3,444,481 10,286,671 11,628 163 986,321	12,250,488		1880-81.	2210 2210 2210 881 585 113 274 161
1879-80.	608,760 33,212,952 333,797,5491	2.860.004 8.268,404 7.467 815 652,009	8,188,621	vees.]	18,9-90,	1675 1675 1675 1675 1675 1675 1675 1675
1878-79.	33,145,651 127,875,5501.	3,024,436 4,337,215 7,350 804 923,381	8,041,570	Millions of supees.	1878-79	01-80 00-00-00-00-00-00-00-00-00-00-00-00-00
1877-78.	609,833 36,196,661 359,089,444,1	3,200,767 2,825,358 7,017,739 475,105	7,884,787		1877-78	25.50 27.50 27.50 27.50 20.50
1876-77.	33,270,208 187.032,7251	2,931,321 622,990 5,082,498 258,105	7,164,994	VALUE	1870-77.	127.35 27.95 27.95 27.95 2.95 2.95 3.95 3.95 3.95 3.95 3.95 3.95 3.95 3
1875-76.	404,060 31,927,340 994 813,7381	2,543,615 751,440 7,770,283 613,151	7,859,951		1875-76.	86.024 8.0000 8.000 8 8.0000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8
1874-75.	37,097,260	1,886,826 30,970,667 305,715	5,043,281		1874-15.	3319 3319 311 3519 3519 3519 3519 3519 3
Average of 5 years ending 1873-74	32, 617 32, 467, 731 976, 679, 840 1	1,356,309 4,036,113 470,679	5,453,277		Average of 5 years ending 1873-74.	25.5 1477 559 241 241 44 60 60
	wist piece-go	Manufactured me- cwt. Cit. Cit. Cit. Silk piece-goods yds. Sugar Cwt.	woollen piece- goods yds.			Coal Cotton twist Cotton precegoods Machinery Manufactured metals Oils piece-goods Silk piece-goods Sugar Woollen piece-goods

Note.—The values for the five years ending 1873-14, as recorded in the trade returns, for cotton twa.t, cotton piece-goods, metals, oils, and sugar, are based on tariff valuations. Speaking generally, the real values were almost always in excess of the tariff valuations.

Exports not specially stimulated by rise of prices.

We now see that when the fall in silver first occurred there was no remarkable increase in exports. After 1878-79 there was a very great increase in exports, but this increase was not due to depreciation of silver, because the silver prices of exports had not risen. The increase in exports was due, in fact, to the opening of the Suez Canal, to the reduced cost of sea carriage, and to good harvests, coupled with the opening out of the country by means of railways, which not merely enabled produce to be conveyed more cheaply to the coast, but even in some instances rendered it possible, for the first time, for the producer to find a market for his surplus produce. We shall see hereafter that the fall in the relative value of silver was not without its influence on this result; but that fall, it cannot be too strongly repeated, could only have stimulated exports by increasing their price in silver; and, as it has not done so, it cannot have been the chief cause of the increased exports.

Imports not checked by rise in prices.

The English economists expected that imports into India would be checked by the increase in their silver prices. There has, in fact, been no such increase in prices, and imports have grown steadily. The fall in gold prices has more than counterbalanced the fall in the relative value of silver, and the people of India now get their imports more cheaply, even under a silver standard, than they formerly did, and the large

increase of exports has enabled them to increase their imports, notwithstanding the heavy amounts drawn by the Secretary of State every year to meet the growing home expenditure of the Government of India.

CHAPTER XXIV.

SPECIAL FLOW OF SILVER TO INDIA SINCE 1873

able substituof silver for chandise after of silver.

No consider With a view to examine still further the tion of imports question of the depreciation of the Indian curimports of mor- rency, I have prepared the following table, which chandlese after the fall in the shows the proportion in which Indian imports relative value were divided between merchandise, gold, and silver, at different periods :-

[Millums of rupees.]

Periods.	r	Average yearly imports, including gold and silver.		Porcentage merchan- disc.	Percentage silver	Percentage gold
1855-56 to 1865-66 1866-67 to 1872-73 1873-74 to 1878-79 1879-80 to 1884-85		380 423 441 617	E is	58 0 78·3 85 2 82 8	28·4 12·4 13·1 10·3	13.6 9.3 1.7 6.9

It will be observed that from 1855-56 to 1865-66 the percentage of silver imported by India was very high, while the percentage of gold was also high, and the percentage of merchandise was low. This period includes the years when the value of Indian cotton had risen so largely, and also covers several years in which London drawings on India had practically ceased.

As already explained, the Indian people preferred at this time to take silver and gold rather than merchandise. During the next period, from 1866-67 to 1872-73, the stimulus of high prices for cotton was withdrawn, and total imports increased very slightly. The proportion of merchandise making up the total imports however, largely increased, while the percentage of gold fell largely, and the percentage of silver was considerably less than half what it had been.

If we take now the period 1873-74 to 1878-79, we find that the yearly average of imports was only slightly in excess of that of the preceding period. This result might seem at first sight to confirm the opinion of those who held that the fall in silver would discourage imports into India, but examination shows that it does not do so. The contention of the English economists was that the imports of merchandise would be discouraged and the imports of silver stimulated, and not that the aggregate imports of all kinds would be checked. In fact, as imports depend on exports, and as exports would be stimulated, it would necessarily follow that total imports also would be stimulated, the stimulus being, however, confined to the imports of silver.

The exports during the period 1873-74 to

1878-79 averaged 594 millions of rupees yearly. as against 532 millions yearly from 1866-67 to 1872-73. The drawings of the Secretary of State, however, were high during the years 1873-74 to 1878-79, and the excess drawings just covered the increase in exports. this reason there could be no increase in total imports. If the fall in the rate of exchange had any effect on imports, it could only be by reducing the imports of merchandise and gold, and increasing the imports of silver. But we find that India only imported during this period a very slightly larger proportion of silver than before, and that the falling off in the imports of gold was counterbalanced by an increase in the imports of merchandise. It can readily be understood that when gold first rose in price as compared with silver, a people so conservative and ignorant as the inhabitants of India hesitated to purchase it, imagining, no doubt, that the rise was temporary; and doubtless the distress caused by the Madras famine also affected the imports of gold. The falling off in the imports of gold was not, however, made good by an increase in the imports of silver. centage of silver imported increased only by '7, while the percentage of merchandise increased by 6.9.

No special or in jurious stimulus to Indian exports in the period 1873-74 to 1878-79 due to the fall in the value of ailver relatively to gold.

1878-79 due to the fall in the value of silver in value as compared with gold, there was no relatively to gold.

We therefore see that when silver first fell walue of silver in value as compared with gold, there was no extraordinary development of exports, and the

percentage of total imports taken in the form of silver was almost the same as before. In other words, there is barely a trace of that reduction in imports of merchandise and increase in the imports of silver which the English economists anticipated.

From 1879-80 the value of the average Norduring the annual exports rose to 798 millions. A portion 1879-80 of the increase met the increased drawings of the Secretary of State, but the balance went to increase imports. If the increase of exports was due to a stimulus given by the fall in silver, we should expect to find that the percentage of silver imported after 1878-79 was larger than On the contrary, we find that from before. 1879-80 to 1884-85, as compared with the period from 1873-74 to 1878-79, a slightly less per-centage of merchandise was imported, a considerably less percentage of silver was imported, and a larger per-centage of gold was imported.

If we compare the period 1879-80 to 1884-85 with the period 1866-67 to 1872-73, before the fall in silver took place, we find that after the fall in silver a less percentage of both gold and silver was taken, and a higher percentage of merchandise. If we take the whole period 1873-74 to 1884-85 together, we find the percentages to be 83.8, 11.5, and 4.9 for merchandise, silver, and gold, respectively, and comparing these percentages with those for the

period 1884-85. period 1866-67 to 1872-73 (which are 78.3, 12.4, and 9.3), we find that after the rise in gold and fall in silver had come into operation the imports into India were composed of a very much smaller proportion of gold, a slightly smaller proportion of silver, and a considerably larger proportion of merchandise. If India had been drained of her wealth by the large quantity of silver which she had to absorb during these years, it would have been found that she had largely increased, and not reduced, the proportion which her imports of silver bore to her imports of ordinary merchandise.

In face of these facts, we can only come to the conclusion that there has been no special drain of any magnitude on India owing to the depreciation of her currency, because in fact her currency has not depreciated in relation to commodities. Prices have been maintained—nothing more.

Rate of increase in the value of the foreign trade of different countries measured by the standard of that country.

In connection with this matter I would call special attention to the very interesting table given in Appendix C, which I have taken from the recent Review of the Trade of British India for 1884-85, by Mr. J. E. O'Conor.

This table shows the rate of increase since 1873 of the value of the foreign trade of India and of certain other countries, which possess a gold standard, and, for facility of reference, I give here a summary of the results:—

PERCENTAGE OF INCREASE OR
DECREASE OF FOREIGN TRADE IN 1884
AS COMPARED WITH 1873

Country.

4.98	-8·71	-0.6 3.14*
27.32	11.54	7·27 7·89*
3.98	43.55	21·4 57·49
	1·98* 27·32 —13·11*	1·98* 4·44* 27·32 —11·54 —13·11* 42·16* 3·98 43·55

To understand this table, we must recollect that India possesses a silver standard and the other countries a gold standard.

The silver prices of imports and exports have not risen in India, so that the table represents not merely the increase of the trade in value, but also in quantity. On the other hand, the prices of the imports and exports of the other countries, for which figures are given, have fallen because these prices are gold prices. The result has been that, although the quantity of the trade of gold countries has increased largely, the apparent value of that trade has increased very slightly, except in the case of the United States, because prices have fallen very nearly in proportion to the increase in trade.

In other words, the partial demonetisation of silver has given India stability of prices, while silver has precountries with a gold standard have experienced in prices in the evils of falling prices.

The partial demonetisation of vented a fall India.

^{*} The figures are for 1883.

CHAPTER XXV.

EFFECTS OF THE FALL IN THE VALUE OF SILVER AS COMPARED WITH GOLD ON INDIA.

supply of the necessary in prices.

An increasing In a country which is stationary as regards its precious metals economic conditions, and where consequently the prevent a fall increase of wealth and trade just keep pace with the increase of population, it will be obvious that a yearly increasing supply of the material of the standard is required, cæteris paribus, to prevent prices from falling. Population tends to grow in an increasing ratio, and the supply of the metal of the standard should follow the same ratio. If it does not do so, the increasing scarcity of coin, compared with the work which it is called upon to perform, must cause a fall in prices; and a fall of prices from this cause is necessarily attended with distress and economic disturbance.

> If the aggregate wealth and trade of a country are increasing more rapidly than population, a still further increase in the rate of production of the material composing the currency will be necessary to prevent prices from falling. extension of civilisation to barbarous countries also creates a demand for special supplies of

money to provide these countries with a currency, and to maintain and increase that currency in proportion to the increase of population, wealth, and trade.

Moreover, if labour becomes more efficient and commodities are more easily produced, it would probably be better for the world that there should be a corresponding increase in the production of the precious metals, so as to prevent the disturbance which accompanies a fall in prices, even when it is due to increased production of commodities.

Looking to the growth of population, the increase of trade and wealth, the extent to which uncivilised countries are being opened out, and the many improvements which are being made in the processes of manufacture, it will be obvious that a yearly increasing production of gold and silver is ordinarily required in order to maintain prices at the same level.

It has already been shown in Chapter XVI. that, before the great gold discoveries, in the middle of the present century, prices had shown a marked tendency to fall. The gold discoveries of California and Australia reversed this tendency; but to maintain prices at the level to which they then attained, it was necessary that the total production of gold should go on increasing year by year, or, if a bimetallic system were in force, that the total production of gold and silver should increase.

There has, however, been no such increase, nor, so far as can be foreseen, is there likely to be; on the contrary the production of gold has fallen off, and though the production of silver has increased, the abandonment of the bimetallic system has prevented the countries with a gold standard from reaping any of the benefits of this increase, and Mr. Giffen's conclusion that there will be a steady and progressive fall in prices all over the world appears to be unassailable.

The fall in gold prices after 1873 aggravated by the partial demonetisation of silver. From the figures given on pages 84,89, and 95, we now know that a fall in prices was about to declare itself after 1873.

Up to that time gold and silver had divided between them the duty of money under a binetallic system which preserved the ratio of value between them at 1 to 15½. After that year the bimetallic system was abandoned; more work was thrown on gold and less on silver,—the fall which would in any case have taken place in gold prices was aggravated by the partial demonetisation of silver, and the fall which would otherwise have taken place in silver prices was checked by the same cause.

If it be the case that the partial demonetisation of silver did not depreciate that metal as compared with commodities, but merely obviated an appreciation which was about to take place, then we cannot doubt that the silver countries have not lost by the demonetisation of silver,

except in so far as they may have previously incurred liabilities in gold, or have found the operations of commerce hampered by the instability of the ratio between gold and silver, or been prevented from borrowing as cheaply as they otherwise might have done.

If the reduction of the proportion of duty as money which silver is required to perform has had the effect of maintaining silver prices at the same level, it might with much greater show of reason be argued that the silver countries have gained rather than lost by the partial demonetisation of silver

We have already seen that prices have fallen steadily and heavily in countries with a gold standard, and that eminent authorities are of opinion that the fall is largely due to the increasing scarcity of gold in comparison with the work which it has to perform.

What, then, has been the effect on India?

The figures given in pages 108, 115, and 117, show that exports from India have greatly increased since the fall in silver, but that the prices prices in the of these exports have not increased. In other countries. words. India has not been drained of her wealth in consequence of the depreciation of the material of her currency.

Her increased exports are surplus wealth made available for export by improved communications, the opening of the Suez Canal, and the general reductions in freight. No special stimulus

But the partial demonetisation of silver has maintained silver-using

has been given to exports by a rise in silver prices: but the fall in the value of silver as compared with gold has obviated the decline which would otherwise have occurred, and has given India the advantage of stability of prices.

If the Indian currency had been depreciated, the silver prices of imports would have risen; as we have already seen, they have fallen rather than risen

The partial demonetisation of silver was followed after an interval of a few years by good harvests in India, which were of special value to the country, because the cost of carriage both to the sea-coast and to Europe had been greatly cheapened, and a market was opened for surplus produce. The partial demonetisation of silver prevented that fall in prices which was otherwise inevitable, and India has consequently had the advantage for the last few years of good harvests, reduction in the cost of carriage, and fairly stable prices. If her trade is somewhat depressed at present, this is merely the reaction of the still greater depression in the countries with a gold standard.

Increased prosperity of India increased imcommodities.

With a view to show the general prosperity shown by the of India since the fall in the relative value of port of certain silver. I have selected a few articles which are not produced in India, and are not necessaries of life, in order to trace the course of imports of such articles since 1874-75:-

of five years Bs. <	Year.	Clocks and Watches.	Corals.	Glass.	Matches.	Unwrought Copper.	Unwrought Tin.	Unbrellas	Gold.	TOTAL
3,27,000 5,45,000 18,38,000 4,25,000 3,37,000 6,61,000 31,89,000 5,85,000 4,38,000 8,14,000 34,99,000 6,70,000 4,19,000 7,24,000 28,04,000 7,66,000 4,19,000 7,00,000 29,14,000 9,98,000 4,83,000 8,19,000 31,87,000 8,64,000 5,42,000 12,38,000 32,93,000 9,65,000 8,20,000 13,76,000 45,48,000 14,44,000 8,32,000 18,54,000 48,37,000 17,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	age of five years	器	Rs.	2	Rs.	器	æ	2	Rs.	Be.
3,37,000 6,61,000 31,89,000 5,85,000 4,38,000 8,14,000 34,99,000 6,70,000 3,57,000 7,24,000 28,04,000 7,66,000 4,19,000 7,00,000 29,14,000 9,98,000 4,83,000 8,19,000 31,87,000 8,64,000 5,42,000 12,38,000 32,93,000 9,65,000 8,20,000 13,76,000 38,02,000 10,15,000 8,32,000 18,54,000 45,48,000 14,44,000 9,24,000 19,59,000 46,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	- Samous	3,27,000	5,45,000	18,38,000	4,25,000	30,82,000	11,29,000	10,46,000	3,14,36,000	3,98,28,000
4,38,000 8,14,000 34,99,000 6,70,000 3,57,000 7,24,000 28,04,000 7,66,000 4,19,000 7,00,000 29,14,000 9,98,000 4,83,000 8,19,000 31,87,000 8,64,000 5,42,000 12,38,000 32,93,000 9,65,000 8,20,000 13,76,000 38,02,000 10,15,000 8,32,000 18,54,000 45,48,000 17,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	፥	3,37,000	6,61,000	31,89,000	5,85,000	22,80,000	13,41,000	11,94,000	2,08,92,000	3,04,79,000
3,57,000 7,24,000 28,04,000 7,66,000 4,19,000 7,00,000 29,14,000 9,98,000 4,83,000 8,19,000 31,87,000 8,64,000 5,42,000 12,38,000 32,93,000 9,65,000 8,20,000 13,76,000 38,02,000 10,15,000 8,32,000 18,54,000 45,48,000 14,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	:	4,38,000	8,14,000	34,99,000	000,07,0	38,72,000	16,18,000	19,64,000	1,83,64,000	3,12,39,000
4,19,000 7,00,000 29,14,000 9,98,000 4,83,000 8,19,000 31,87,000 8,64,000 5,42,000 12,38,000 32,93,000 9,65,000 8,20,000 13,76,000 38,02,000 10,15,000 8,32,000 18,54,000 45,48,000 14,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000		3,57,000	7,24,000	28,04,000	1,66,000	47,96,000	17.86,000	13,67,000	13,67,000 1,44,37,000	2,70,37,000
4,83,000 8,19,000 31,87,000 8,64,000 8,42,000 12,38,000 32,93,000 9,65,000 8,20,000 13,76,000 38,02,000 10,15,000 8,32,000 18,54,000 45,48,000 14,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	:	4,19,000	2,00,000	29,14,000	000'86'6	51,69,000	22,12,000	18,85,000	1,57,89,000	3,00,86,000
8,20,000 12,38,000 32,93,000 9,65,000 8,20,000 13,76,000 38,02,000 10,15,000 8,32,000 18,54,000 45,48,000 14,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	:	4,83,000	8,19,000	31,87,000	8,64,000	46,51,000	15,08,000	23,80,000	1,46,30,000	2,85,22,000
8,20,000 13,76,000 38,02,000 10,15,000 8,32,000 18,54,000 45,48,000 14,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	:	5,42,000	12,38,000	32,93,000	9,65,000	57,17,000	9,84,000	20,40,000	2,05,04,000	3,52,83,000
8,32,000 18,54,000 45,48,000 14,44,000 9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	:	8,20,000	13,76,000	38,02,000	10,15,000	42,04,000	17,68,000	27,29,000	3,67,21,000	5,24,35,000
9,24,000 19,59,000 48,37,000 17,44,000 10,34,000 23,12,000 56,01,000 13,57,000	:	8,32,000	18,54,000	45,48,000	14,44,000	44,88,000	16,93,000	20,96,000	4,85,64,000	6,55,19,000
10,34,000 23,12,000 56,01,000 13,57,000		9,24,000	19,59,000	48,37,000	17,44,000	53,92,000	27,64,000	23,28,000	5,09,51,000	7,08,99,000
	:	10,34,000	23,12,000	56,01,000	13,57,000	68,74,000	23,47,000	27,60,000	5,46,95,000	7,69,80,000
1884-85 9,45,000 18,25,000 49,97,000 20,43,000 62,11,	:	9,45,000	18,25,000	49,97,000	20,43,000	62,11,000	22,18,000	33,53,000	4,77,82,000	6,93,74,000

Those who are familiar with the conditions of Indian life will know that the increased import of the articles shown in the table on p. 147 is the surest sign of Indian prosperity; and the total increase in 1884-85 over the average of the five years ending 1873-74 is no less than 74 per cent. If gold, of which the price in silver has largely risen, be excluded, the increase is more than 157 per cent.

Progress of certain heads and of the cotton industry.

Instances might be multiplied to show the of revenue progress of India during the last twelve years; but I will confine myself to one more table, showing the increase in the Excise and Stamp Revenue, the increase in the returns from the railways and canals constructed through the agency or on the financial responsibility of Government, and the growth of the cotton industry:-

1	Excise.	Stamps.	Net return from Productive Public Works.	Number of spindles in cotton mills.
	Rs.	Rs.	Rs.	vo = voma re
1873-74 1874-75 1875-76 1876-77 1877-78 1879-80 1880-81 1881-82 1882-83 1883-84 1884-85	2,28,76,800 2,34,72,740 2,49,43,390 2,52,39,860 2,45,80,290 2,61,93,490 2,83,80,210 3,13,52,260 3,42,72,740 3,60,95,610 4,01,50,670	2,69,99,360 2,75,80,420 2,83,53,680 2,83,86,280 3,11,05,400 3,19,37,390 3,25,05,810 3,38,13,720 3,37,96,810 3,51,32,010 3,60,66,210	-1,60,57,230 -1,43,61,080 -1,29,55,670 -68,91,530 +45,63,290 -1,25,36,950 -27,76,570 +12,23,490 +1,13,30,580 +48,23,530 +1,20,77,530 +80,30,334	1,231,284 1,289,706 1,436,464 1,470,830 1,471,730 1,550,944 1,654,108 1,895,284 2,047,801

The excise revenue has increased in 11 years by more than 75 per cent., and the stamp revenue

by more than 33 per cent. The great railways and canals which are included under the head of Productive Public Works, appear to show an improvement of Rs. 2,40,87,564, but owing to the way in which the Indian accounts are kept, an adjustment is required on account of exchange, and if this be made, the real improvement is reduced to Rs. 1,54,00,000. The result is sufficiently remarkable if it be borne in mind that between 1873-74 and 1884-85 the Indian Government has been pressing on the construction of railways and canals, that many of these railways and canals are not yet in full working order, while others are under construction and swell the charge for interest, though not bringing in any revenue. The improvement in 1885-86 over 1873-74 will probably not be less than Rs. 2,00,00,000.

A large portion of the profits from the best paying lines is also absorbed by Companies who undertook the construction of the lines on a guarantee by Government, and the improvement which is shown above does not include the extra profits now received by these Companies. Companies received in 1884-85 no less than Rs. 57,11,960 in addition to the guaranteed rate of interest of 5 per cent.

Moreover, the progress of the Indian revenue shows that the general prosperity of the country, which is largely due to the stability of price value of silver maintained by the partial demonetisation of gold,

Rapid growth dian revenue since the relatively to silver, very materially counterbalances, even from a purely financial point of view, the increasing burden thrown on the Government of India by the fall in the rate of exchange. For instance, the Indian Government set aside 150 lakhs of rupees in 1881 as a provision against future famine, and in 1882 remitted taxation to the amount, in round numbers, of 300 lakhs of rupees, thus disposing in all of 450 lakhs per annum.

At that time the rate of exchange was 1s. 8d. per rupee. It may possibly not be higher than 1s. 6d. per rupee in 1886-87,—a change which imposes an additional burden on Indian finance of nearly 200 lakhs of rupees. No additional taxation has been imposed since 1881, and the ordinary growth of Indian revenue since that date has been so rapid that, apart from the military expenditure which may be required on special grounds, I have little doubt that the revenue of 1886-87 will be found to balance the expenditure.

The fall in the rate of exchange cannot have had a ruinous influence on Indian finance, since the Government of India had surplus revenue of 450 lakhs per annum to dispose of in 1882, eight years after the fall began, and has since been able to meet all the ordinary cost of administration without additional taxation, although the further fall, subsequent to 1882, has thrown an additional burden on the finances of nearly 200 lakhs per annum.

CHAPTER XXVI.

UNIVERSAL RIMETALLISM.

THE general fall in prices which declared itself prior to 1848, and to which a reference was made on page 76, was checked by the increased production of gold, due to the discovery of gold mines in California and Australia. The production of gold was for some years seven-fold what the production had been before 1848, and a general rise in prices followed. At this time the Effect of the bimetallic system was effectively maintained by France, and the rise in prices consequent on the gold discoveries was spread over the whole great gold disworld, and was not confined to those countries only which had a gold standard. France gave up silver for export to the East, and absorbed gold in its place. The area of the employment of gold was in this way automatically extended, and that of the employment of silver contracted, so as to preserve a constant ratio of 1 to $15\frac{1}{2}$ between the market value of the two metals. If all countries had been monometallic at that time, the rise in prices in countries with a gold standard would probably have been twice as great as it actually was, and there would have been little, if any, rise in prices in the silver

bimetallic system in checking the rise in prices after the coveries.

countries. The market ratio between gold and silver might have become 1 to 12 or 1 to 10 instead of 1 to 15%.

Aggregate production of gold nearly the

The production of gold reached its highest and silver point in a few years after the first discoveries; same since 1852. the alluvial deposits very soon began to be exhausted; the production gradually fell off, and recourse to deep mining and expensive machinery became necessary. After a time, however, the annual production of silver began to increase; and, taking the two metals together, it may be said that there has been no very great variation in the total production since 1852.

Total production of gold and silver not in excess of what is required.

In order to preserve stability of price, a yearly increasing production of the material of the currency is required. It was therefore inevitable that, in face of the vastly increasing amount of work as money which gold and silver are called on to perform, there should be, sooner or later, a fall in prices. It appears probable from the subsequent course of events that a fall in prices would have occurred in any case after 1873, but the fall in gold prices was aggravated by the action of Germany and France.

Increased population, increased wealth, increased trade, and increased production, appear to have demanded, after 1873, the discovery of these new mines, at which, as Mr. Newmarch said, "the world ought to rejoice." Unfortunately no new mines of gold were discovered, and the partial demonetisation of silver at this

time, and the abandonment of the bimetallic system, prevented the world from taking full advantage of the increased supplies of silver which were then coming into the market, and of which all nations would, under the bimetallic system, have reaped the full advantage without trouble and without thought.

At the very moment when the total supply Loss to gold of gold and silver was becoming insufficient for caused by the the demands of the world, the action of Germany abandonment of the bimetaland France deprived the gold-using countries of lic system in the benefits which they would have received from the increased supplies of silver; gold was called on to do the work of a still wider area at the time when it was proving insufficient to keep up prices in the area hitherto occupied. The result has been to aggravate the inevitable fall of prices in gold countries, and to obviate that fall in prices from which countries with a silver standard would otherwise have suffered.

India has suffered from the partial demoneti- Question of sation of silver, because her obligations con- India. tracted in gold now impose a heavier burden on her than they otherwise would have done, because capitalists whose resources are in gold hesitate to invest money in a country where the standard is silver, and because an additional element of uncertainty has been introduced into all commercial transactions between silver and gold-using countries. On the other hand, the partial demonetisation of silver has prevented a

countries

gain or loss to

fall of prices in India, and has thereby conferred a boon of immense value on the country. Grievous as is the burden which the so-called loss by exchange imposes on Indian finance, and difficult as it is for the Indian Government to recruit its resources by additional taxation, I should, if I were forced to strike a balance between the gain and loss, hesitate to say that on the whole India has, up to the present date, been a loser

Universal metallism quired.

The true remedy for a portion of the evils from which the world now suffers is the adoption of universal bimetallism at a fixed ratio to be determined by mutual consent. What that ratio should be I shall not attempt to determine

There is no magic in the ratio of 1 to $15\frac{1}{2}$ rather than in 1 to 10 or 1 to 20. The loss of the old ratio of 1 to $15\frac{1}{2}$ was a terrible calamity, but the advantages of bimetallism will in the long run be obtained as satisfactorily under any other ratio which may be chosen by common consent.

Ratio between gold and silver after consideration of the circumstances of the time.

The future ratio should be determined with should be fixed reference to the circumstances of the time; the benefits of that ratio, whatever it may be, will last for all time. The ratio of 1 to $15\frac{1}{3}$ has tradition in its favour, and tradition is powerful in a matter of this kind; its adoption would redress some grievances which have been caused by the injustice of legislatures, and, what is the

chief argument in its favour, it is probably the only ratio that would be accepted by nations. such as France, which hold a large amount of silver valued above the present market rate. I do not deny that the adoption of the ratio of 1 to 15\frac{1}{2} instead of the present market ratio of 1 to 19 or 20 would involve loss to some and gain to others: but to those who call Heaven to witnes against such spoliation, I would reply that it was legislation that altered the ratio from 1 to 151: that what legislation did legislation can undo; and that the spoliation involved in going back to the ratio of 1 to 15½ would not be greater-nay, would be very much less-than the spoliation involved in passing from a ratio of 1 to $15\frac{1}{9}$ to 1 to 19. On the other hand, it must be admitted that arguments of great weight can be advanced either for adopting the present market ratio as the future legal ratio, or for adopting a ratio somewhat higher than the present market ratio, but not so high as the old ratio of 1 to 15½. The question is one on which it would be useless to pronounce an opinion at the present time. The problem must, if a satisfactory solution is to be found, be approached in a spirit of conciliation, and the future welfare of the world depends very much more on the adoption of some fixed ratio rather than on the adoption of any particular ratio.

The choice of the world will probably fall on that ratio which will conciliate most interests and excite least opposition, but whatever ratio may be adopted, it should not be lower than the market ratio, nor higher than 1 to $15\frac{1}{2}$. The longer the settlement of the question is delayed the more difficult will it be to choose a ratio which will satisfy the interests of the nations concerned.

Future fall in prices probableEven if a fixed ratio be established between gold and silver, it is more than probable that future years will see a fall in prices, though there may be a recovery from the present state of extreme depression.

The future may, however, be left to take care of itself; the world will not willingly accept the injustice which is involved in a progressive and continued fall in prices; and, no doubt, the increasing knowledge of mankind will lead to remedies being provided, which will, at any rate, alleviate the evils of a shrinking of the metallic currency in comparison with the work it has to do.

Possibility of the maintenance of the bimetallic system by a group of countries.

Failing universal bimetallism, it would be desirable that bimetallism should be adopted by a group of countries sufficiently strong to maintain the fixed ratio.

A statement prepared by the Director of the Mint of the United States, shows that in 1884 France, Germany, and the United States held between them 1,793 millions of dollars in gold coin. It so happens that these countries and India hold the greater portion of the full legal

tender silver coin of the world, and consequently if they adopted a bimetallic system, and India maintained her silver standard, they could not be exposed to an excessive drain of gold in exchange for silver.

Excluding India, France, Germany, and the United States, the rest of the civilised world holds only 440 millions of dollars in silver of full legal tender.

If, therefore, France, Germany, and the United States agreed to form a bimetallic union (India engaging to maintain the silver standard), they might in the most extreme case be offered 440 millions of silver dollars, taken from the currencies of other civilised nations, in exchange for gold; but as they hold 1,793 millions of dollars in gold, their stock of gold could not possibly be exhausted, and they would, in accordance with the principles laid down in Chapter XI., have no difficulty in maintaining the fixed ratio.

There does not appear to be any likelihood Improbability that in the remote future the value of silver in ciation of silrelation to commodities will be depreciated below to commodiits present level, even if the bimetallic system be not adopted. On the contrary, looking to the wants of countries now only entering into the pale of civilisation, as well as of those which possess a forced paper currency, and to the probable increase of population and trade, we may reasonably anticipate that, whatever may be

of the deprever in relation ties in the future.

the future ratio of exchange between silver and gold, the former metal will rise in value relatively to commodities, or, in other words, that silver prices will in time tend towards a lower level.

If a fixed ratio between silver and gold be not adopted, gold prices will experience a still greater fall.



APPENDIX

VARIATIONS IN THE WHOLESALE PRICES OF CERTAIN STAPLE OF MARCH,

	1 207 :	1000	1005	none.	1000
	187.3,	1874.	1875.	1876.	1877.
Exports.	March.	March.	March.	March	January 4th.
Castor oil (No. 1, fine pale) .	100	101	85		111
Hides, buffalo, slaughtered, Patna	100	96	83		94
" cow, slaughtered .	100	106	97		96
Indigo, good	100	Nom.		Nom.	110
Jute, picked	100	137	132	128	150
" ordinary	100	123	119	119	142
Lac dye, fine	100		73	45	69
,, middling	100		44		40
Shell lac, fine orange	100	149		102	68
" middling .	100	149		87	60
Linseed, fine, bold, clean	100	123	96		102
Rice, moonghy .	100	153	Nel.	114	150
,, ballam	100	153	112	119	156
Saltpetre, 2-4 per cent. refraction	100	81	75	•••	80
Seed, rape (yellow, mixed, 2%)	100	89	83		104
., til (black 4%) .	100	97	84		105
,, poppy (3%)	100	95	73		81
Silk, raw, Cossimbazar	100	89	62		98
,, Gonatea	100	91	64	***	94
" Jungypoor	100	86	62	•	94
Radanagore	100	87	59		91
Surdahs	100	87	60		10
Sugar, Benares	100	87]	8
, date, Gurpatta	100	77	.	. 1	No
Dulloah	100			86	No:
Tea, fine Pekoe	100	119	126	142	14
" good Southong	100		125	109	12
Congou	100	Nel.		112	11
Tobacco (Rungpore)		100	75		N
Wheat, Doodiah	100	107	87	74	8

 ${f A}$. Commodities of export at Calcutta; taking the prices 1873 as = 100.

1878.	1879.	1880	1881.	1882.	1883.	1884.	1885.
January 10th.	January 9th.	January 13th.	January 4th.	January 7th.	January 15th.	January 14th.	January 5th.
115	119	99	83		81	87	79
75	69	96	93	83	87	71	
72	90	95	95	97	103	100	101
88	114	112	105	117	107	117	103
	153	169	156	137	96	162	110
149	142	163	144	130	87	155	101
58	54	73	49	39	27	Nil.	
33		56	38	28	16	Nil.	
49	63	157	124	93	80	98	56
44	58	157	113	84	75	91	53
106	Nom.			91	85	96	98
155	189	136	89	83	101	142	
168	182	147	109	94	109	160	138
89	84	88	95	90	82	78	66
110	108	104	Nom.		93	107	87
128	122	119	98	88	102	109	Nel.
95	101	96	95	77	74	87	78
80	64	87	78	87	76	67	58
79	Nil.	91	75	Nil.	77	68	59
81	67	83	74	77	69	62	52
78	61	85	Nom.	Nil.	70	63	52
77	62	85	74	82	79	62	56
Nom.	Nil.						
Nil.	81	113	92	95	97	87	Nil.
N_{il} .	110	133	127	113	107		Nul.
135	129	126	135	126	110	116	90
104	68	82	64	86	77	64	55
106	81	109	75	87	69	75	62
87	69	81	Nom.			125	94
109	109		91	96	84	75	72

APPENDIX

VARIATIONS IN THE WHOLESALE PRICES OF CERTAIN STAPLE OF MARCH,

	1873.	1874.	1875.	1876.	1877.
Ехронтв.	March.	March.	March.	March	January 4th,
Castor oil (No. 1, fine pale)	100	101	85		111
Hides, buffalo, slaughtered, Patna	100	96	83		94
,, cow, slaughtered	100	106	97		96
Indigo, good	100	Nom.		Nom.	110
Jute, picked .	100	137	132	128	150
,, ordinary	100	123	119	119	142
Lac dye, fine	100		73	45	69
" middling	100		44	••	40
Shell lac, fine orange	100	149		102	68
, middling	100	149		87	60
Linseed, fine, bold, clean	100	123	96		102
Rice, moonghy	100	153	Nil.	114	150
" ballam	100	153	112	119	156
Saltpetre, 2-4 per cent. refraction	100	81	75		80
Seed, rape (yellow, mixed, 2%)	100	89	83		104
,, til (black 4%)	100	97	84		105
" poppy (3%)	100	95	73		81
Silk, raw, Cossimbazar	100	89	62		98
" Clonatea	100	91	64		95
,, Jungypoor	100	86	62		95
., Radanagore	100	87	59		96
., Surdahs .	100	87	60		100
Sugar, Benares	100	87			88
, date, Gurpatta	100	77			Nom.
Dulloah .	100			86	Nom.
Tea, fine Pekoe	100	119	126	142	148
" good Souchong	100		125	109	123
Congou	100	Nil.		112	119
Tobacco (Rungpore)		100	75		Not.
Wheat, Doodish	100	107	87	74	87

A.

Commodities of export at Calcutta; taking the prices 1873 as = 100.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
January 10th.	January 9th.	January 18th.	January 4th.	January 7th.	January 15th.	January 14th.	January 5th.
115	119	99	83		81	87	79
75	69	96	93	83	87	71	
72	90	95	95	97	103	100	101
88	114	112	105	117	107	117	103
•••	153	169	156	137	96	162	110
149	142	163	144	130	87	155	101
58	54	73	49	39	27	Nil.	
33		56	38	28	16	Nil.	
49	63	157	124	93	80	98	56
44	58	157	113	84	75	91	53
106	Nom.			91	85	96	98
155	189	136	89	83	101	142	
168	182	147	109	94	109	160	138
89	84	88	95	90	82	78	66
110	108	104	Nom.		93	107	87
128	122	119	98	88	102	109	Nil.
95	101	96	95	77	74	87	78
80	64	87	78	87	76	67	58
79	Nil.	91	75	Nil.	77	68	59
81	67	83	74	77	69	62	52
78	61	85	Nom.	Nil.	70	63	52
77	62	85	74	82	79	62	56
Nom.	Nil.						
Nil.	84	113	92	95	97	87	Nil.
Nil.	110	133	127	113	107		Nul.
135	129	126	135	126	110	116	90
104	68	82	64	86	77	64	55
106	81	109	75	87	69	75	62
87	69	81	Nom.			125	94
109	109		91	96	84	75	72

APPENDIX

VARIATIONS IN THE WHOLESALE PRICES OF CERTAIN STAPLE OF MARCH,

		1	;		T
	1873.	1874.	1875.	1876.	1877.
Exports.	March.	March.	March.	March.	January 4th.
	1				
Castor oil (No. 1, fine pale)	100	101	85	•••	111
Hides, buffalo, slaughtered, Patna	100	96	83		94
cow, slaughtered .	100	106	97		96
Indigo, good	100	Nom.		Nom.	110
Jute, picked	100	137	132	128	150
, ordinary	100	123	119	119	142
Lac dye, fine	100		73	45	69
" middling	100		44	•	40
Shell lac, fine orange	100	149	•••	102	68
" middling .	100	149		87	60
Linseed, fine, bold, clean	100	123	96	• •	102
Rice, moonghy	100	153	Nıl.	114	150
" ballam	100	153	112	119	156
Saltpetre, 2-4 per cent. refraction	100	81	75		80
Seed, rape (yellow, mixed, 2%)	100	89	83		104
., til (black 4%) .	100	97	84		105
" poppy (3%)	100	95	73		81
Silk, raw, Cossimbazar .	100	89	62		98
" Gonatea	100	91	64		95
,, Jungypoor	100	86	62		95
., Radanagore	100	87	59		96
., Surdahs .	100	87	60	•••	100
Sugar, Benares	100	87			88
, date, Gurpatta .	100	77			Nom.
Dulloah	100			86	Nom.
Tea, fine Pekoe	100	119	126	142	148
good Souchong	100		125	109	123
Congou	100	Nil.		112	119
Tobacco (Rungpore)		100	75		Nil.
Wheat, Doodiah	100	107	87	74	87

 ${f A}$. Commodities of export at Calcutta; taking the prices 1873 as = 100.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
January 10th.	January 9th.	January 13th.	January 4th.	January 7th.	January 15th.	January 14th.	January 5th.
115	119	99	83		81	87	79
75	69	96	93	83	87	71	
72	90	95	95	97	103	100	101
88	114	112	105	117	107	117	103
	153	169	156	137	96	162	110
149	142	163	144	130	87	155	101
58	54	73	49	39	27	Ail.	
33		56	38	28	16	Nil.	
49	63	157	124	93	80	98	56
44	58	157	113	84	75	91	53
106	Nom.	 		91	85	96	98
155	189	136	89	83	101	142	
168	182	147	109	94	109	160	138
89	84	88	95	90	82	78	66
110	108	104	Nom.		93	107	87
128	122	119	98	88	102	109	Nil.
95	101	96	95	77	74	87	78
80	64	87	78	87	76	67	58
79	Nil.	91	75	Nil.	77	68	59
81	67	83	74	77	69	62	52
78	61	85	Nom.	Nil.	70	63	52
77	62	85	74	82	79	62	56
Nom.	Nil.						
N.l.	84	113	92	95	97	87	Nil.
Nil.	110	133	127	113	107		Nul.
135	129	126	135	126	110	116	90
104	68	82	64	86	77	64	55
106	81	109	75	87	69	75	62
87	69	81	Nom.			125	94
109	109		91	96	84	75	72

APPENDIX B.

PAY OF POSTMEN IN INDIA FROM 1855 TO 1885.

,	s	1855.	****	1500.	1865.		15	1570.	ŕ	1575	18	1880.	_	1885.
YZ.	NAME OF POST-OFFICE.	Postmen.		nstmen.	Postmen. Portmen.	 :	Pent	Pertmen.	Pos	Postmen.	Post	Postmen.		Postmen.
Calcutta	Bengal.	(Rž. 15		Rs. 15	R4. 1	12.0	Rs. 15	- - - - - - - - - - - - - - - - - - -	Rs. 15 12 10	222	철 : :	F. 15.	ě	Rs. 17, 13, 11
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Patna .		\$::		10		 O 13	::	8-9	:::	. G. 1-1	: :	œ 1-	•	9, 7
Chyebassa								8-9	: : _	8-1	: :	•	:	6
Cuttack	:		-	92		, c	•	6-8 to 9	::	8-0	: :	c.∞		01 6
	ASSAM.	-							:	•	l		-	
Gauhati	:	· · ·		. 5		9	:	9 to 12	:	10	: :	2 2	: :	£ =
Debrugarh	:	* 5		. 5			:	9 to 12	2	10	: : : -~	2 ×		11

APPENDIX B-Continued.

NAME OF DOCTORIOR	1855.	1860.	1865.	1870.	1875.	1880.	1886.
MARK OF LOST-UFFICE.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.
North-Western Provinces.	Rs. 7	Rs. 10	Rs. 7	Rs 9 to 12	R8.	Rs. 10	Rs. 15, 11, 10
	°	° .	.	,, 6-8 to 9	6.8 	8-9	
Aligurh	 	6	10	(,, 9 to 12 (,, 6-8 to 9		10 1-8 6-8 6-8	" 11 " 7-8 " 6-8
Gotakhpur	:	:	:	(, 9 to 12 (,)	\bigg\{ \bigg\{ n & 10 \\ n & 9 \\ n & 6-8 \\ \end{array}}	9 6-7 6-8	10 20 20 20 20 20 20 20 20 20 20 20 20 20
Огрн	:: ::	 6		9 to 12 6-8 to 9	(), 10 (), 1-8 (), 6-8	,, 10 ,, 1-8 , 6-8	
Fyzabad	:0		9	i 9 to 12 i ,. 6-8to 9	., 10 ., 10	10 10 10 10 10 10 10 10 10 10 10 10 10 1	100
Lahore	•	,, 10	9	1 9 to 12	 		, 12 , 8 9
Poshawar	, " 10 , " 6	,, 10 6	" 10 " 6	., 9 to 12	;; co.co	0.00	10 10
Dehta Ghazi Khan	9 :	,, 6	9	i 9 to 12	,, 6-8	% 6-8 " 6-8	8 8 ;

APPENDIX B-Continued.

2	•				18	1855.	1860.		1855.			1870.		1873		1580.	9.	~	1886.
T N	KE OF	NAME OF POST-OFFICE.	FICE.		Post	Postmen.	Postmen.	len.	Postmen.	ien.	Pc	Postmen.		Postmen.	- -	Postmen.	nen.	Pos	Postmen.
Karachi	1 5. ::	Sind.			Rs.	10)	!{8.	01-9	Ks.	12	Rs.	9 to 6-8 to	to 12 Rs.	is. 12		Rs. 1	226	- 1 ES.	222
Shikarpur	. BA118		:	:		1-		1-		æ	::	9 to 6-8 to	to 12; to 9.			::		٠: ٠	- 1 1 6 - 1 1 6
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Ahmedabad	:	:	i	:		<i>r</i> o	2	•0	*	9	::	9 to 6-8 to	to 12 to 9 i			::	01 8		1200
Dhulia	:	:	:	:	•	ıo	*	ဖ	E	9	::	9 to 6-8 to	to 12 to 9	::	0 %	::	0 8	* : :	, = e
Ratnagiri	:	:	:		:	ب ھ	=	,G	"	9	= :	6-8	to 12 to 9		0 20	= =	018	: : :	11 6
Роопа	÷	:	:	:	<u> </u>	မ က		0 0 0		10	: :	9 6-8 1	to 12 to 9	::	÷1 0		220		13 13
Dharwar	÷	:	÷	:	*	9		9	•	9	::	9 6-8	to 12.	. :			0 8	: : :	6

APPENDIX B-Continued.

;	1855.	1860.	1865.	1870.	1875.	1880.	1886.
NAME OF POST-OFFICE.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.
CENTRAL INDIA.		l			(Rs. 10	Rs. 10	Rs. 11
Indore	Rs. 5	, Ks. 10	ns. 10	ns. 9 to 12 ,, 6-8 to 9	6 "	,, 9	"
Mhow	" 5	5	9 "	\ ,, 9 to 12 \ ,, 6-8 to 9			";; 9
Gouna	,, 6	. 5	° 2	" 6-8 to 9	6-8	7-8 6-8	8
Nizan's Territory. Secunderabad	6		9	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1000		,, 10 ,, 9 ,, 8
Centhal Provinces. Nagpur	8 9 :: ~~	* *	* ; © ©	" 9 to 12 " 6-8 to 9	o I~	-18	* 1 13 8 8 8 8
Jubbulpore	. 5	"		\ " 9 to 12 \ " 6-8 to 9	6 2		, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Raipur	9	6	. 6	; 9 to 12 ; 6-8 to 9	91-	62-	= ° °
Sumbalpore	" 2	20 21		" 6-8 to 9	-1		.; .; 8

APPENDIA B-Continued.

Washington Done America	1855.	1860.	1865.	1870.	1575.	1880.	1885.
AAAR UY EURI-OFFICE.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.	Postmen.
Madras	(Rs. 15	, Rs. 15	/ Rs 12	(Re. 15 " 12 " 10 " 8	Rs. 15	Rs. 15 ", 12 ", 10	Re. 17 " 14 " 12
Bangalore .		:	:	6 9 to 12	2001-0	2082	: : : : E C C &
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Vizagapatum	.0.	5-4	6	(,, 9 to 12 (,, 6-8 to 9	0 æ 1-		100 8

APPENDIX B-Continued.

PAT OF POSTAL RUNNERS FROM 1855 TO 1885.

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1880.	(Rs. 6 5 4 4	र र : : : 10 का का का	2 2 2 2
1875.	සූ ::::: දී ::::: ර රාධකකයයෙක ර	જા વા વા વા	Rs
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1865.	88	ना चा चा चा इ.इ.इ.इ	4 4 4 4 -8
1860.	ह्यू रः स्टा क क्षक्रक्रक	च मा चा चा ११११	* * * * * * * * * * * * * * * * * * *
1855.	8. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	* * ; ; ; 4 w 4 w	4 + 4 + 4 + 8 - 8 - 8
NAME OF LINES.	Benoal. Balasore to Cuttack Dacca to Chittagong Cuttack to Angool (or Sumbalpore) Purulia (Manbhoom) to Chyebassa Gya to Nowada Mozufferpur to Purneah Ranchi to Palamow	Oudh and North-Western Provinces. Lucknow to Sitapore Budaon to Bareilly Etawah to Manipuri Moradabad to Bijnur	Delhi (to all places) Juliundur to Hoshiarpur Kohat to Bunnoo or Edwardesabad Dehra Ghazi Khan to Dehra Ismail Khan

APPENDIX B-Concluded.

PAT OF POSTAL RUNNERS FROM 1855 TO 1885.

NAME OF LINES.	1855.	1890.	1865.	1870.	1875.	1880.	1885.
Sivn. Hyderabad to Mohad Khans Tando Jerruck to Tatta	Rs. 5	Rs. 5	Rs. 5	Rs. 4-8	Rs. 6	Rs. 6	Rs. 7
Boxbay. Ratnagiri to Vingorla Hubli to Harribar	D.	2 ¥ 2 70 44 70	5 6 6	111	2::		
CENTRAL PROVINCES. Jubbulpore to Mandla	Dô.	•				: :	
Madraga. Calicut to Tellichery Vizagapatam to Berhampore Ganjam	* :	,, 3-12	a a	: :		:::	
MYSORE. Bangalore to Mysore	4	t.	*	÷	: 9	9	:
А метаво	Rs. 4·05	Rs. 4·56	Rs. 4-95	Rs. 5·2	Rs. 5.14	Rs. 5.24	Rs. 5.35

APPENDIX C. 0000's omitted.

		ENGLAND.		-	FRANCE.		Ð	GERMANY.			ITALY.		UNIT	UNITED STATES.	128.	æ	Ввітівн Імріа.	INDIA.	
¥9 F	Import	Imports Exports	Total	Imports	Imports Exports	Total	Imports.	Exports.	Total.	Imports Exports	Exports	Total.	Imports Exports	Exports	Total.	Official Year.	Imports	Imports Exports	Total
	e	92	92	92	C48	cat .	cas .	C48	CH2	c43	es.	e#	3,8	cat .	eg.		æ	વા	•
1873	371,287	371,287 255,165 626,452 142,192 151,492 283,684 187,810 115,090	626,452	142,192	151,492	288,684	187,810		302,900 50,147		15,256	95,703	133,778	June 20 105,215	238,993	95,703 133,778 105,215 238,993 (1873-74) 31,629	31,689	53,114	84,748
1874	370,08	370,083 239,508 609,641 140,308 148,044 288,352 180,285	179,609	140,308	148,044	288,352		117,655	297,890, 51,826		39,128	90,954	118,200	118,632	236,841	90,954 118,200 118,632 236,841 (1874-75)	34,645	54,501	89,148
9281	373,940	373,940 223,466 597,406 141,468 154,904 296,372 176,560	397,406	141,468	151,904	296,372		124,750	301,310 48,277		40,892	89,169	111,043	104,017	215,080	89,169 111,043 104,017 215,060 (1875-76) 37,113	37,113	56,212	88,385
1876	375,156	375,155,200,639,575,794,159,536,143,024,302,560,190,105	575,794	159,536	143,024	302,560		127,385		317,490 52,283	48,340 100,623	100,623	96,988	109,496	205,484	96,968 109,496 206,484 (1876-77)	35,367	58,930	22,29
1877	304,418	394,419 198, 843 583, 362 146, 792 137, 452 284, 244 188,710	588,262	146,792	137,452	281,244		138,120	326,830 45,662		37,359	83,021	97,036	122,848	216,874	94,026 122,848 216,874 (1877-78)	30,326	68,144	102,470
1878	368,777	368,771 192,849 561,630 167,048 127,188 294,236 175,685	561,620	167,048	127.188	201,236		144,357	320,042 42,358		39,941	82,302		141,814	332,866	91,052 141,814 332,866(1878-79)	36,566	58,708	96,274
6781	362,992	362,992 191,532 554,524 183,808 129,252 313,060 188,670	554,524	183,808	129,252	313,060		138,785	327,455 49,881		42,870	92,751		145,488	238,358	92,870 145,488 238,358 (1879-80)	39,742	64,961	104,663
1880	411,230	411,230,223,080 634,290 201,328 138,716 340,044 141,035	631,290	201,328	138,716	340,044		144,770	285,805 47,447	17,447	11,130	91,586	139,157	171,656	310,812	91,586 139,157 171,656 310,812 (1880-81) 50,309	906,09	11,974	122,283
1881	30,702	397,022 234,023 631,045 194,536 142,460 336,996 148,150	631,045	194,536	142,460	338,996		148,850	297,000 19,548	19,548	16,574		133,889	184,151	318,040	96,122 133,889 184,151 318,040 (1881-82) 46,992	46,992	79,255	126,247
1882	413,020	413,020/241,467 654,487 192,872 142,976 335,848 156,475	654,487	192,872	142,976	335,848	156,475	159,525	316,000 19,039		15,983	95,022	150,967	152,758	303,725	95,022 150,967 152,758 303,725 (1882-83)	50,003	80,508	130,601
1883	426,892	436,892 239,789 666,691 192,172 138,075 330,247 163,185 163,610	666,691	192,172	138,075	330,247	163,185		326,795 51,448	51,448	17,264		150,003	167,548	318,200	98,712 150,003 167,546,318,206 (1883-84) 52,704	52,704	86,008	137,712
1881	389,775	389,775,232,928,622,703,181,039,134,004,315,043	822,703	181,039	131,004	315,043	:	:	:	:	:	:	139,104	151,034	290,138	139,104 151,034 290,138 (1884-85) 53,149	53,149	80,313 133,462	133,462
Percentage of increase or decrease in 1894 as compared with 1873	86. 1 +	178-1		-06+27:32-11:54	75.11-		-13.11*	+7.27 -13.11* +42.16* +7.89* +1.96* +4.44* +3.14*	2 82 -+	+1.98*	+1.11.	+3.14*		+3.98 +43.55	+21.4		76-89+	+68-04 +51-21 +57-49	+57-49

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